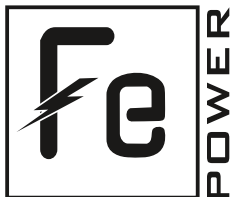


DEMİR



DEMİR MAKİNE İTHALAT İHRACAT SANİ ve TİC. LTD. ŞTİ.



Qstrong®
GENERATOR

Demir Makine İthalat & İhracat San. ve Tic. Ltd. Şti. has been founded in Istanbul in 1999.

Generators, Engines, Water pumps, agricultural machinery, construction machinery, in the field of Import & Export and Production areas began to serve FE POWER, QSTRONG, VISPO and COSTA registered trademarks with the result of his successful work has become one of the industry's leading reputable brands.

All product groups in Turkey has been serving its customers with extensive dealer and service network. In addition, working with groups of Turkey's leading Construction Market.

Together with all employees, customer satisfaction by providing reliable and honest service has identified as the primary goal. For this, first quality aesthetic and affordable products and continues to provide sales and after sales service.

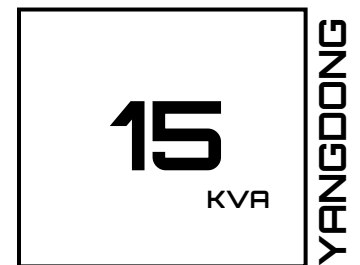
Success and sustainability of production, working with the principle of honesty and quality assurance services.

We would like to thank you for your immediate attention and support will continue to serve today and in the future.



15
KVA





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	13.5	15
Power	KW	10.8	12
Power	(cos Phi=0,8) A	19.4	21.6
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

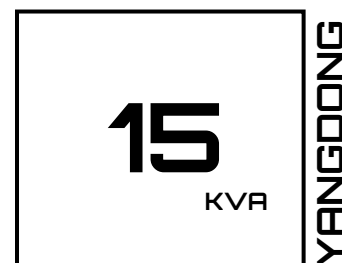
Brand		YANGDONG
Model		YD385D
Engine Standby Power	(kWm / hp)	13/17.43
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	1.49
Number of Cylinder		3 IN LINE
Bore x Stroke	(mm x mm)	84 x 90
Compression Rate		22.5: 1
Governor Type		MECHANICAL
Cooling System		NATURAL
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12
Lubrication Oil Capacity	(L)	6
Engine Coolant Capacity	(L)	6
Fuel Tank	(L)	40
Maximum Exhaust Gas Temperature	(°C)	450
Maximum Exhaust Gas Flow	(m3/h)	5
Maximum Allowed Back Pressure	(kPa)	4
Cooling Air Flow	(m3/min)	50
Fuel Consumption 50%	(L/h)	2.54
Fuel Consumption 75%	(L/h)	3.12
Fuel Consumption 100%	(L/h)	3.55

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

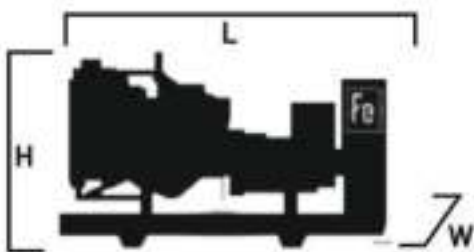
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

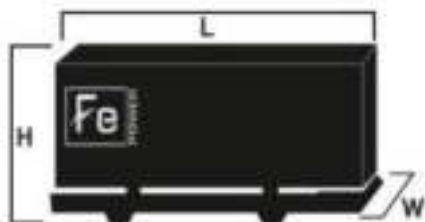
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	1700
Height (H)	mm	1100
Width (W)	mm	800
Wet weight	kg	420
Fuel Tank Capacity	L	40

SPECIFICATION WITH CABIN



Length (L)	mm	2000
Height (H)	mm	1200
Width (W)	mm	800
Wet weight	kg	530
Fuel Tank Capacity	L	40





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	18	20
Power	KW	14.4	16
Power	(cos Phi=0,8) A	25.9	28.8
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		YANGDONG
Model		YD480D
Engine Standby Power	(kWm / hp)	15/20.12
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	2.21
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	84 x 100
Compression Rate		23.3: 1
Governor Type		MECHANICAL
Cooling System		NATURAL
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12
Lubrication Oil Capacity	(L)	10.6
Engine Coolant Capacity	(L)	6.5
Fuel Tank	(L)	40
Maximum Exhaust Gas Temperature	(°C)	450
Maximum Exhaust Gas Flow	(m3/h)	2.13
Maximum Allowed Back Pressure	(kPa)	3.3
Cooling Air Flow	(m3/min)	50
Fuel Consumption 50%	(L/h)	2.74
Fuel Consumption 75%	(L/h)	3.43
Fuel Consumption 100%	(L/h)	4.22

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

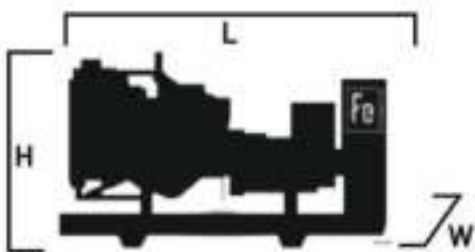
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

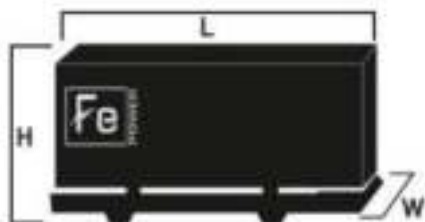
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



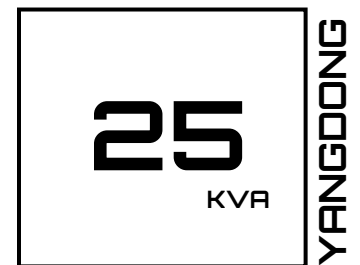
Length (L)	mm	1700
Height (H)	mm	1100
Width (W)	mm	800
Wet weight	kg	445
Fuel Tank Capacity	L	40

SPECIFICATION WITH CABIN



Length (L)	mm	2000
Height (H)	mm	1200
Width (W)	mm	800
Wet weight	kg	565
Fuel Tank Capacity	L	40





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	22.5	25
Power	KW	18	20
Power	(cos Phi=0,8) A	32.4	36
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

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PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		YANGDONG
Model		YND485D
Engine Standby Power	(kWm / hp)	19/25.48
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	2.21
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	84 x 100
Compression Rate		23.3: 1
Governor Type		MECHANICAL
Cooling System		NATURAL
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12
Lubrication Oil Capacity	(L)	10.6
Engine Coolant Capacity	(L)	7
Fuel Tank	(L)	40
Maximum Exhaust Gas Temperature	(°C)	450
Maximum Exhaust Gas Flow	(m3/h)	5.1
Maximum Allowed Back Pressure	(kPa)	6
Cooling Air Flow	(m3/min)	50
Fuel Consumption 50%	(L/h)	2.78
Fuel Consumption 75%	(L/h)	3.73
Fuel Consumption 100%	(L/h)	4.67

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

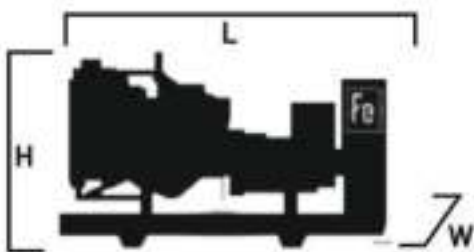
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

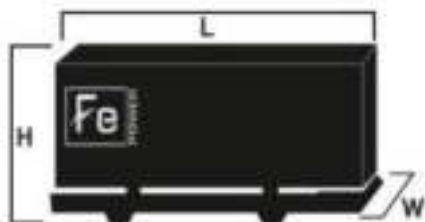
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



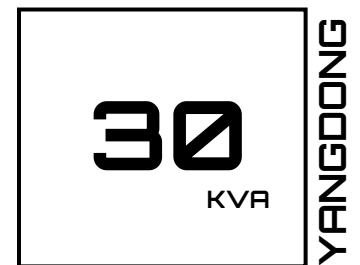
Length (L)	mm	1700
Height (H)	mm	1100
Width (W)	mm	800
Wet weight	kg	480
Fuel Tank Capacity	L	40

SPECIFICATION WITH CABIN



Length (L)	mm	2000
Height (H)	mm	1200
Width (W)	mm	800
Wet weight	kg	585
Fuel Tank Capacity	L	40





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	27	30
Power	KW	21.6	24
Power	(cos Phi=0,8) A	38.9	43.2
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

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PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.

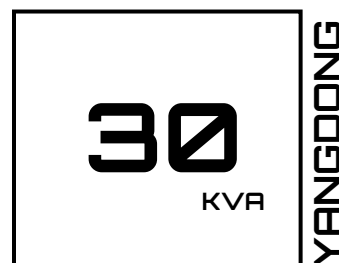


STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

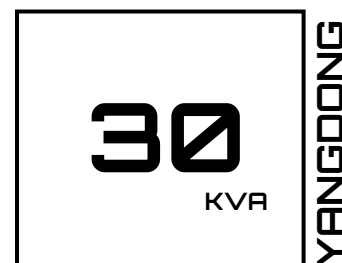
Brand		YANGDONG
Model		490D
Engine Standby Power	(kWm / hp)	24/32.19
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	2.21
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	84 x 100
Compression Rate		23.3: 1
Governor Type		MECHANICAL
Cooling System		NATURAL
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12
Lubrication Oil Capacity	(L)	10.6
Engine Coolant Capacity	(L)	7
Fuel Tank	(L)	40
Maximum Exhaust Gas Temperature	(°C)	450
Maximum Exhaust Gas Flow	(m3/h)	5.1
Maximum Allowed Back Pressure	(kPa)	6
Cooling Air Flow	(m3/min)	50
Fuel Consumption 50%	(L/h)	2.98
Fuel Consumption 75%	(L/h)	4.05
Fuel Consumption 100%	(L/h)	5.45

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

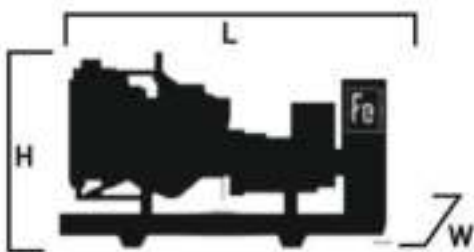
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

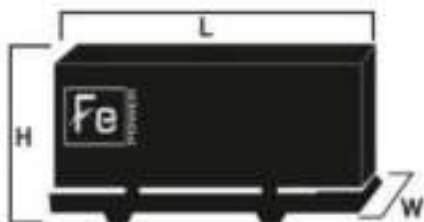
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
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- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
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- Contactor & MCB drive
- 4 quadrant genset power counters
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- Mobile genset support
- Automatic GSM geo-location
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- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



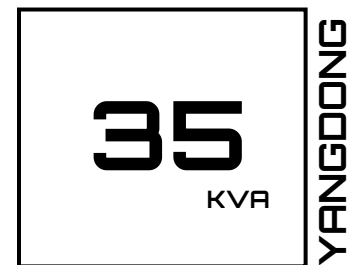
Length (L)	mm	1700
Height (H)	mm	1100
Width (W)	mm	800
Wet weight	kg	535
Fuel Tank Capacity	L	40

SPECIFICATION WITH CABIN



Length (L)	mm	2000
Height (H)	mm	1200
Width (W)	mm	800
Wet weight	kg	650
Fuel Tank Capacity	L	40





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	31.5	35
Power	KW	25.2	28
Power	(cos Phi=0,8) A	45.4	50.4
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

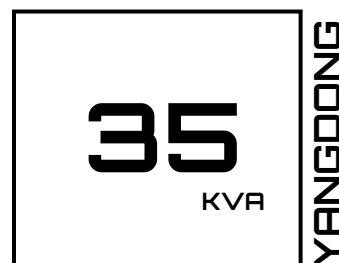
It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

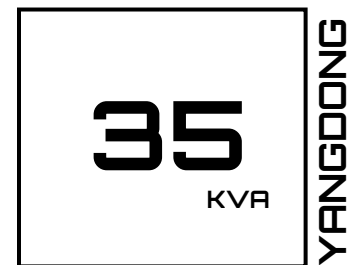
Brand		YANGDONG
Model		490ZD
Engine Standby Power	(kWm / hp)	31/41.58
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	2.21
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	84 x 100
Compression Rate		23.3: 1
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12
Lubrication Oil Capacity	(L)	10.6
Engine Coolant Capacity	(L)	7
Fuel Tank	(L)	55
Maximum Exhaust Gas Temperature	(°C)	450
Maximum Exhaust Gas Flow	(m3/h)	5.1
Maximum Allowed Back Pressure	(kPa)	6
Cooling Air Flow	(m3/min)	50
Fuel Consumption 50%	(L/h)	5.27
Fuel Consumption 75%	(L/h)	6.15
Fuel Consumption 100%	(L/h)	6.87

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

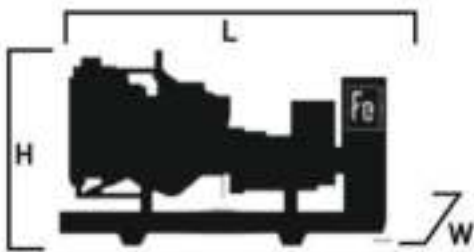
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

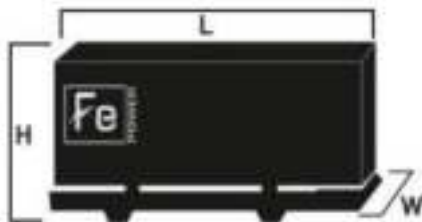
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



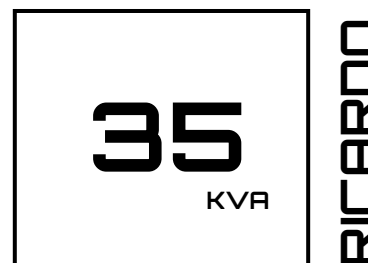
Length (L)	mm	1700
Height (H)	mm	1100
Width (W)	mm	800
Wet weight	kg	665
Fuel Tank Capacity	L	55

SPECIFICATION WITH CABIN



Length (L)	mm	2000
Height (H)	mm	1200
Width (W)	mm	800
Wet weight	kg	850
Fuel Tank Capacity	L	55





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	31.4	35
Power	KW	25.2	28
Power	(cos Phi=0,8) A	45.4	50.4
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

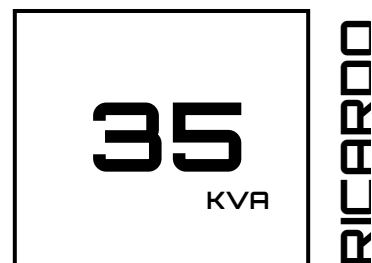
It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

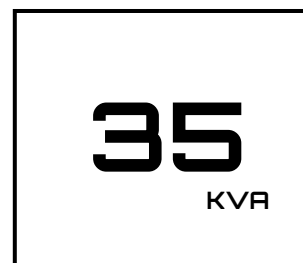
Brand		RICARDO
Model		K4100D1
Engine Standby Power	(kWm / hp)	33/44.5
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	3.61
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	102 x 115
Compression Rate		19: 01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	11
Lubrication Oil Capacity	(L)	14
Engine Coolant Capacity	(L)	6.5
Fuel Tank	(L)	55
Maximum Exhaust Gas Temperature	(°C)	470
Maximum Exhaust Gas Flow	(m3/h)	2.13
Maximum Allowed Back Pressure	(kPa)	3.3
Cooling Air Flow	(m3/min)	125
Fuel Consumption 50%	(L/h)	5
Fuel Consumption 75%	(L/h)	7
Fuel Consumption 100%	(L/h)	9

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.4
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]

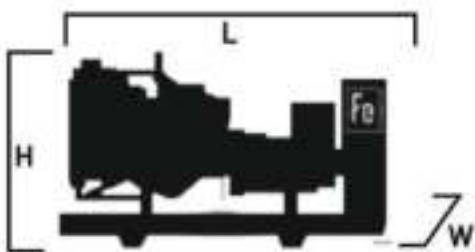


RICARDO

CONTROL PANEL SPECIFICATION

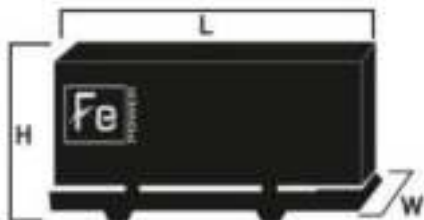
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



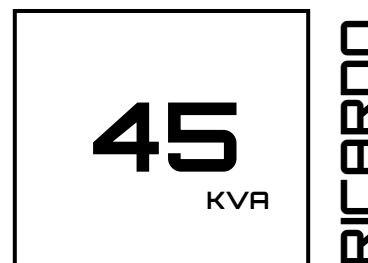
Length (L)	mm	1900
Height (H)	mm	1150
Width (W)	mm	950
Wet weight	kg	665
Fuel Tank Capacity	L	55

SPECIFICATION WITH CABIN



Length (L)	mm	2200
Height (H)	mm	1250
Width (W)	mm	950
Wet weight	kg	850
Fuel Tank Capacity	L	55





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	40.5	45
Power	KW	32.4	36
Power	(cos Phi=0,8) A	58.3	64.8
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.

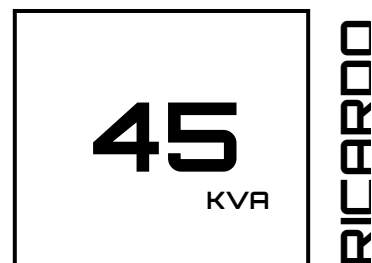


STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

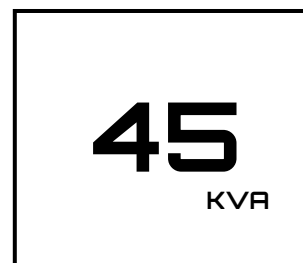
Brand		RICARDO
Model		K4100ZD
Engine Standby Power	(kWm / hp)	46/61.69
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	3.61
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	102 x 115
Compression Rate		19: 01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12
Lubrication Oil Capacity	(L)	13
Engine Coolant Capacity	(L)	6.5
Fuel Tank	(L)	55
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	2.9
Maximum Allowed Back Pressure	(kPa)	3.3
Cooling Air Flow	(m3/min)	125
Fuel Consumption 50%	(L/h)	5
Fuel Consumption 75%	(L/h)	7.2
Fuel Consumption 100%	(L/h)	10

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.4
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]

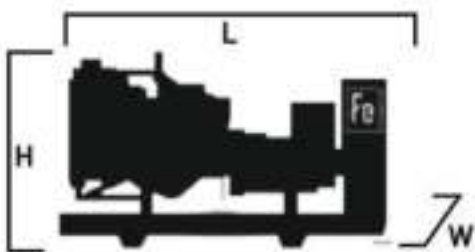


RICARDO

CONTROL PANEL SPECIFICATION

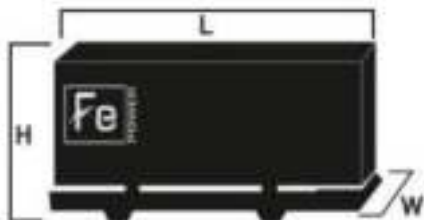
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



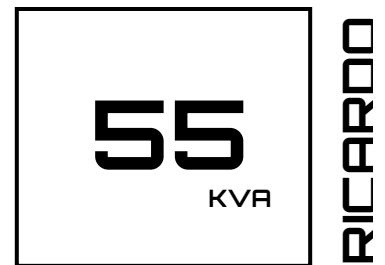
Length (L)	mm	1900
Height (H)	mm	1150
Width (W)	mm	950
Wet weight	kg	760
Fuel Tank Capacity	L	55

SPECIFICATION WITH CABIN



Length (L)	mm	2200
Height (H)	mm	1250
Width (W)	mm	950
Wet weight	kg	950
Fuel Tank Capacity	L	55





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	49.5	55
Power	KW	39.6	44
Power	(cos Phi=0,8) A	71.3	79.2
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

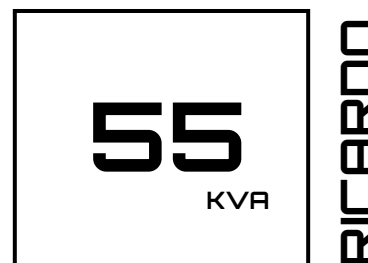
Brand		RICARDO
Model		K4100ZD
Engine Standby Power	(kWm / hp)	46/61.69
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	3.61
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	102 x 115
Compression Rate		19: 01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12
Lubrication Oil Capacity	(L)	14
Engine Coolant Capacity	(L)	12
Fuel Tank	(L)	55
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	2.60
Maximum Allowed Back Pressure	(kPa)	4
Cooling Air Flow	(m3/min)	14
Fuel Consumption 50%	(L/h)	6
Fuel Consumption 75%	(L/h)	9
Fuel Consumption 100%	(L/h)	12

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

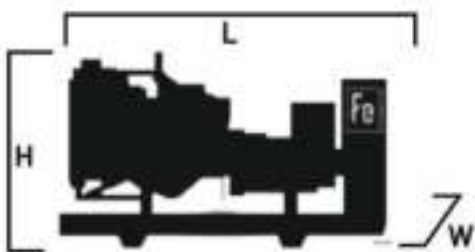
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

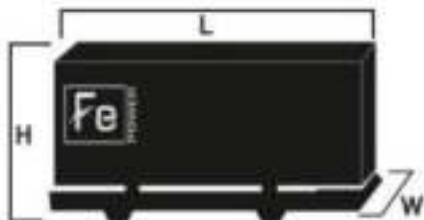
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- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
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- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



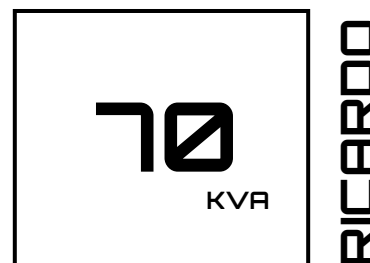
Length (L)	mm	1900
Height (H)	mm	1150
Width (W)	mm	950
Wet weight	kg	900
Fuel Tank Capacity	L	55

SPECIFICATION WITH CABIN



Length (L)	mm	2200
Height (H)	mm	1250
Width (W)	mm	950
Wet weight	kg	1200
Fuel Tank Capacity	L	55





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	63	70
Power	KW	50.4	56
Power	(cos Phi=0,8) A	90.7	100.8
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.

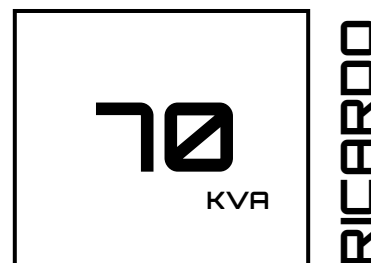


STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

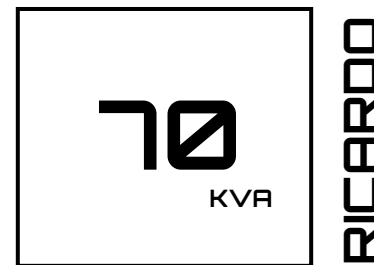
Brand		RICARDO
Model		ZH4105ZLD
Engine Standby Power	(kWm / hp)	57/76.44
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	4.43
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	102 x 115
Compression Rate		17: 01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12
Lubrication Oil Capacity	(L)	14
Engine Coolant Capacity	(L)	12
Fuel Tank	(L)	160
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	3.97
Maximum Allowed Back Pressure	(kPa)	4
Cooling Air Flow	(m3/min)	174
Fuel Consumption 50%	(L/h)	8
Fuel Consumption 75%	(L/h)	11.2
Fuel Consumption 100%	(L/h)	14.8

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.4
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

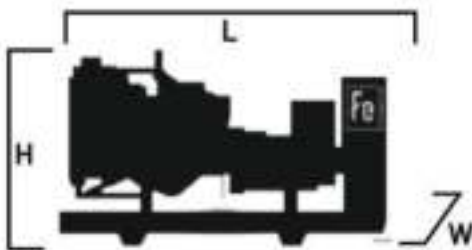
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

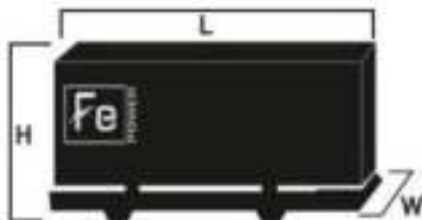
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



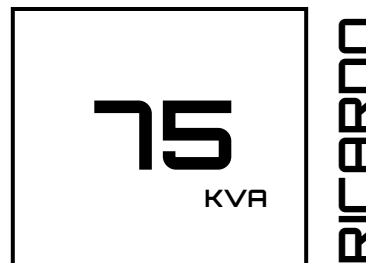
Length (L)	mm	2200
Height (H)	mm	1500
Width (W)	mm	900
Wet weight	kg	940
Fuel Tank Capacity	L	75

SPECIFICATION WITH CABIN



Length (L)	mm	2500
Height (H)	mm	1700
Width (W)	mm	1000
Wet weight	kg	1285
Fuel Tank Capacity	L	160





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	67.5	75
Power	KW	54	60
Power	(cos Phi=0,8) A	97.2	108
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

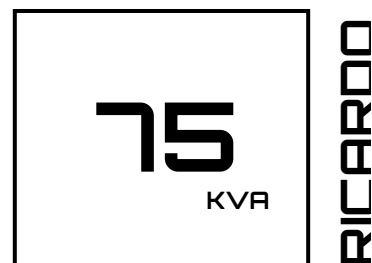
It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

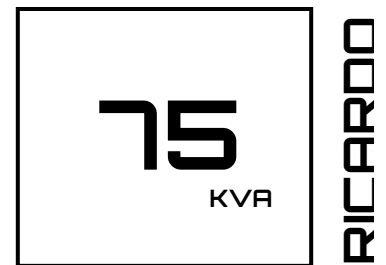
Brand		RICARDO
Model		ZH4105ZLD1
Engine Standby Power	(kWm / hp)	65/87.17
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	4.43
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	102 x 115
Compression Rate		17: 01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12
Lubrication Oil Capacity	(L)	14
Engine Coolant Capacity	(L)	12
Fuel Tank	(L)	160
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	3.97
Maximum Allowed Back Pressure	(kPa)	4
Cooling Air Flow	(m3/min)	174
Fuel Consumption 50%	(L/h)	7
Fuel Consumption 75%	(L/h)	11
Fuel Consumption 100%	(L/h)	15

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.4
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

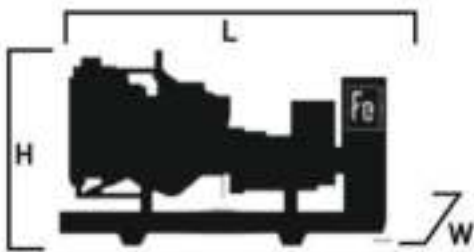
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

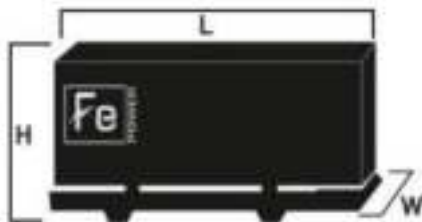
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- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
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- Harmonic analysis of V & I
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- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



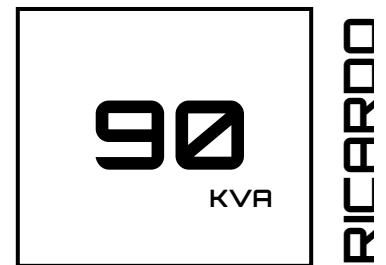
Length (L)	mm	2200
Height (H)	mm	1500
Width (W)	mm	900
Wet weight	kg	940
Fuel Tank Capacity	L	75

SPECIFICATION WITH CABIN



Length (L)	mm	2500
Height (H)	mm	1700
Width (W)	mm	1000
Wet weight	kg	1285
Fuel Tank Capacity	L	160





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	81	90
Power	KW	64.8	72
Power	(cos Phi=0,8) A	116.6	129.6
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.

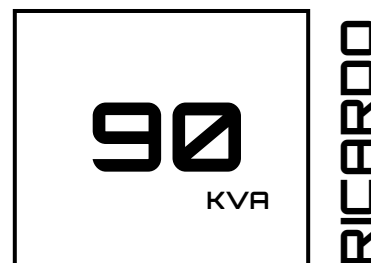


STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

Brand		RICARDO
Model		R4105AZLD
Engine Standby Power	(kWm / hp)	73/97.9
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	4.43
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	102 x 135
Compression Rate		17: 00
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12/24
Lubrication Oil Capacity	(L)	14
Engine Coolant Capacity	(L)	12
Fuel Tank	(L)	160
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	5.31
Maximum Allowed Back Pressure	(kPa)	4
Cooling Air Flow	(m3/min)	174
Fuel Consumption 50%	(L/h)	9
Fuel Consumption 75%	(L/h)	13
Fuel Consumption 100%	(L/h)	17

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	90.9
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]

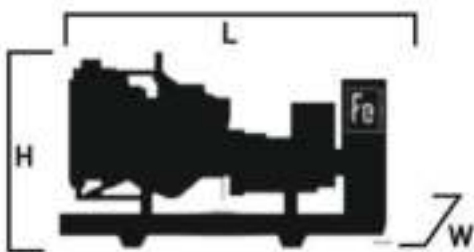


RICARDO

CONTROL PANEL SPECIFICATION

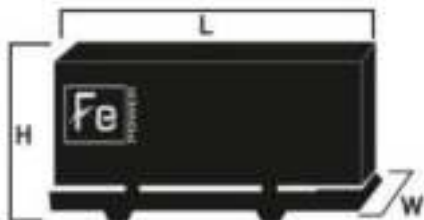
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



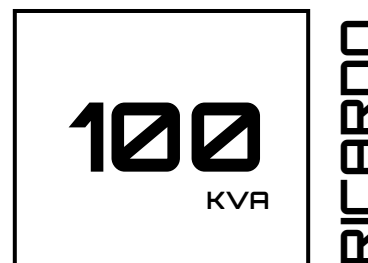
Length (L)	mm	2200
Height (H)	mm	1500
Width (W)	mm	900
Wet weight	kg	1110
Fuel Tank Capacity	L	75

SPECIFICATION WITH CABIN



Length (L)	mm	2500
Height (H)	mm	1700
Width (W)	mm	1000
Wet weight	kg	1380
Fuel Tank Capacity	L	160





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	90	100
Power	KW	72	80
Power	(cos Phi=0,8) A	129.6	144
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.

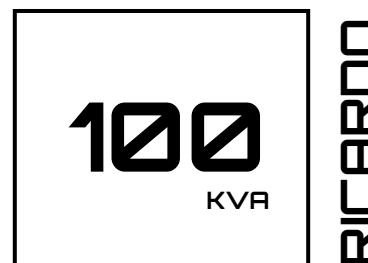


STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

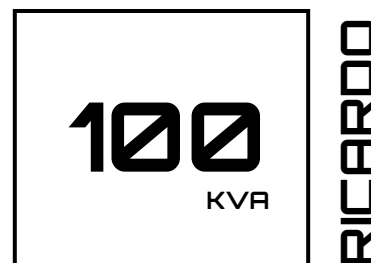
Brand		RICARDO
Model		R4105BZLD
Engine Standby Power	(kWm / hp)	79/105.94
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	4.43
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	105 x 135
Compression Rate		17: 00
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12/24
Lubrication Oil Capacity	(L)	18
Engine Coolant Capacity	(L)	16
Fuel Tank	(L)	160
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	5.95
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	210
Fuel Consumption 50%	(L/h)	10
Fuel Consumption 75%	(L/h)	14
Fuel Consumption 100%	(L/h)	19

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.4
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

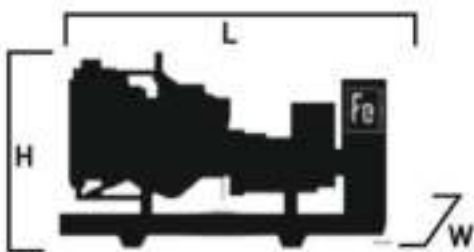
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

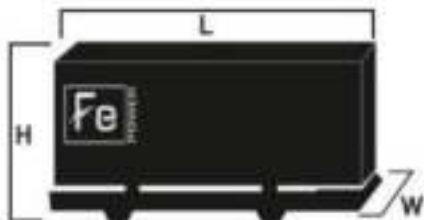
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



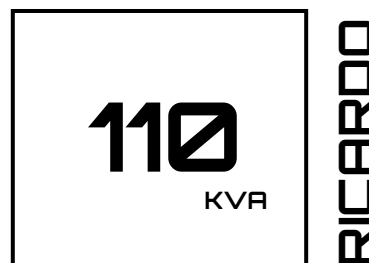
Length (L)	mm	2200
Height (H)	mm	1500
Width (W)	mm	900
Wet weight	kg	1400
Fuel Tank Capacity	L	75

SPECIFICATION WITH CABIN



Length (L)	mm	2500
Height (H)	mm	1700
Width (W)	mm	1000
Wet weight	kg	1500
Fuel Tank Capacity	L	160





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	99	110
Power	KW	79.2	88
Power	(cos Phi=0,8) A	142.6	158.4
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.

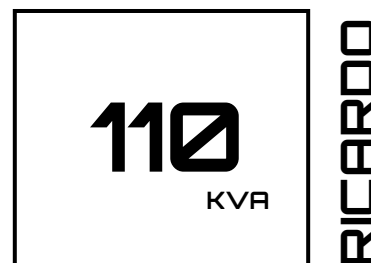


STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

Brand		RICARDO
Model		R4110
Engine Standby Power	(kWm / hp)	84/112.65
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	4.43
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	105 x 135
Compression Rate		17: 00
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12/24
Lubrication Oil Capacity	(L)	18
Engine Coolant Capacity	(L)	16
Fuel Tank	(L)	160
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	5.95
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	210
Fuel Consumption 50%	(L/h)	11
Fuel Consumption 75%	(L/h)	17
Fuel Consumption 100%	(L/h)	22

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	91.2
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]

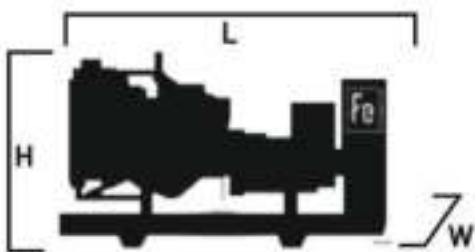


RICARDO

CONTROL PANEL SPECIFICATION

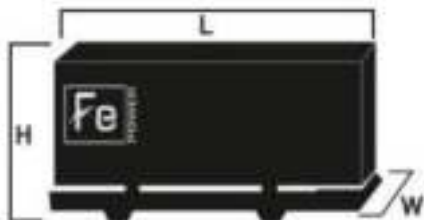
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- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	2200
Height (H)	mm	1500
Width (W)	mm	900
Wet weight	kg	1400
Fuel Tank Capacity	L	75

SPECIFICATION WITH CABIN



Length (L)	mm	2500
Height (H)	mm	1700
Width (W)	mm	1000
Wet weight	kg	1600
Fuel Tank Capacity	L	160





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	112.5	125
Power	KW	90	100
Power	(cos Phi=0,8) A	162	180
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

Brand		RICARDO
Model		R6105ZLD
Engine Standby Power	(kWm / hp)	110/147.51
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	6.75
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	105 x 130
Compression Rate		16: 01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	18
Engine Coolant Capacity	(L)	16
Fuel Tank	(L)	210
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	7.8
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	210
Fuel Consumption 50%	(L/h)	13
Fuel Consumption 75%	(L/h)	19
Fuel Consumption 100%	(L/h)	26

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	91.2
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

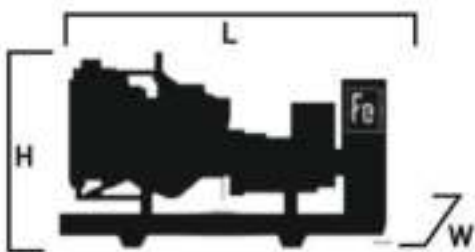
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

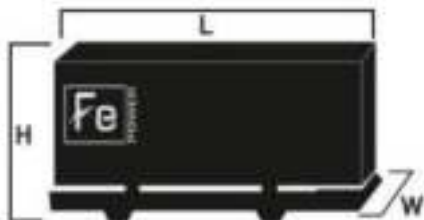
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	2500
Height (H)	mm	1650
Width (W)	mm	1000
Wet weight	kg	1400
Fuel Tank Capacity	L	160

SPECIFICATION WITH CABIN



Length (L)	mm	3000
Height (H)	mm	1850
Width (W)	mm	1100
Wet weight	kg	1650
Fuel Tank Capacity	L	210





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	135	150
Power	KW	108	120
Power	(cos Phi=0,8) A	194.4	216
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.

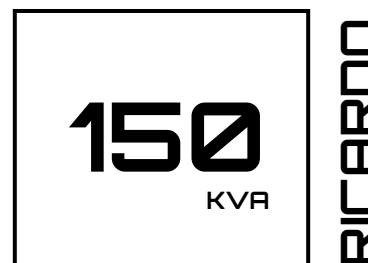


STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

Brand		RICARDO
Model		R6105AZLD
Engine Standby Power	(kWm / hp)	121/162.26
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	6.75
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	105 x 130
Compression Rate		16: 01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	18
Engine Coolant Capacity	(L)	16
Fuel Tank	(L)	210
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	7.8
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	210
Fuel Consumption 50%	(L/h)	16
Fuel Consumption 75%	(L/h)	23
Fuel Consumption 100%	(L/h)	31

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	91.2
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

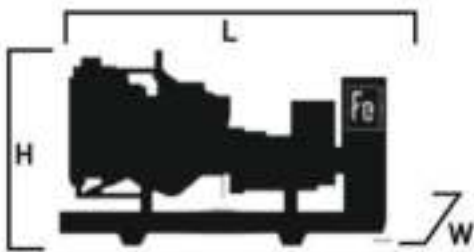
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

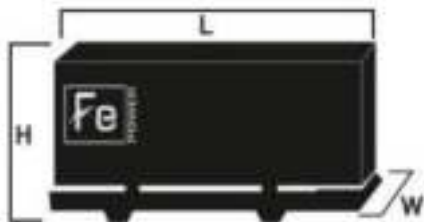
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	2500
Height (H)	mm	1650
Width (W)	mm	1000
Wet weight	kg	1420
Fuel Tank Capacity	L	160

SPECIFICATION WITH CABIN



Length (L)	mm	3000
Height (H)	mm	1850
Width (W)	mm	1100
Wet weight	kg	1710
Fuel Tank Capacity	L	210





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	157.5	175
Power	KW	126	140
Power	(cos Phi=0,8) A	226.8	252
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

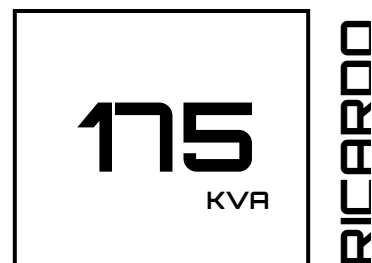
It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		RICARDO
Model		R6105AZLD1
Engine Standby Power	(kWm / hp)	132/177.01
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	7.1
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	105 x 130
Compression Rate		16: 01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	18
Engine Coolant Capacity	(L)	16
Fuel Tank	(L)	210
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	9.4
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	210
Fuel Consumption 50%	(L/h)	17
Fuel Consumption 75%	(L/h)	25
Fuel Consumption 100%	(L/h)	34

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

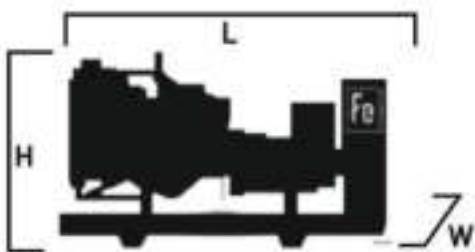
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

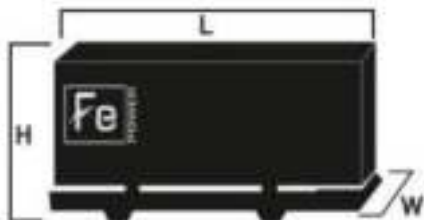
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	2500
Height (H)	mm	1650
Width (W)	mm	1000
Wet weight	kg	1650
Fuel Tank Capacity	L	160

SPECIFICATION WITH CABIN



Length (L)	mm	3000
Height (H)	mm	1850
Width (W)	mm	1100
Wet weight	kg	1900
Fuel Tank Capacity	L	210





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	198	220
Power	KW	158.4	176
Power	(cos Phi=0,8) A	285.1	316.8
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

Brand		RICARDO
Model		R6110ZLD1
Engine Standby Power	(kWm / hp)	171/229.31
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	7.1
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	105 x 130
Compression Rate		16: 01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	18
Engine Coolant Capacity	(L)	16
Fuel Tank	(L)	210
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	9.4
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	210
Fuel Consumption 50%	(L/h)	20
Fuel Consumption 75%	(L/h)	30
Fuel Consumption 100%	(L/h)	40

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

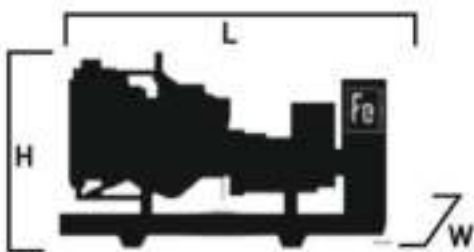
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

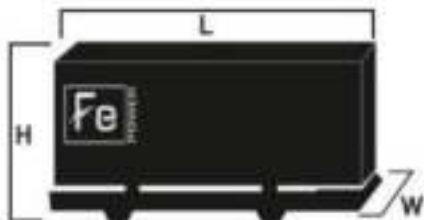
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
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- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
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- Voltage unbalance protection
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- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
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- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	2500
Height (H)	mm	1650
Width (W)	mm	1000
Wet weight	kg	1750
Fuel Tank Capacity	L	160

SPECIFICATION WITH CABIN



Length (L)	mm	3000
Height (H)	mm	1850
Width (W)	mm	1100
Wet weight	kg	2200
Fuel Tank Capacity	L	210





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	225	250
Power	KW	180	200
Power	(cos Phi=0,8) A	324	360
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

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PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		SDEC
Model		QST8H163
Engine Standby Power	(kWm / hp)	170/227.97
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	11.5
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	114 x 144
Compression Rate		16.5: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	25
Engine Coolant Capacity	(L)	12
Fuel Tank	(L)	345
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	9.4
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	210
Fuel Consumption 50%	(L/h)	24.3
Fuel Consumption 75%	(L/h)	38.2
Fuel Consumption 100%	(L/h)	48.6

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

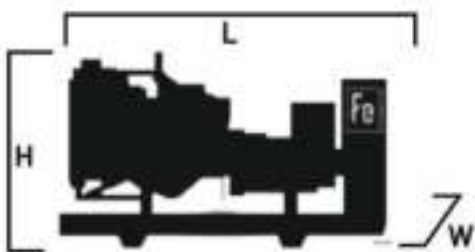
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

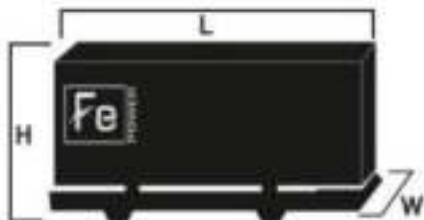
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- 400Hz operation support
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- All parameters front panel editable
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- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	3000
Height (H)	mm	1800
Width (W)	mm	1100
Wet weight	kg	1800
Fuel Tank Capacity	L	210

SPECIFICATION WITH CABIN



Length (L)	mm	3500
Height (H)	mm	2140
Width (W)	mm	1200
Wet weight	kg	2265
Fuel Tank Capacity	L	345





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	247.5	275
Power	KW	198	220
Power	(cos Phi=0,8) A	356.4	396
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		SDEC
Model		QST8H217
Engine Standby Power	(kWm / hp)	206/276.25
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	11.5
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	114 x 144
Compression Rate		16.5: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	25
Engine Coolant Capacity	(L)	12
Fuel Tank	(L)	345
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	9.4
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	210
Fuel Consumption 50%	(L/h)	26
Fuel Consumption 75%	(L/h)	38
Fuel Consumption 100%	(L/h)	51

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

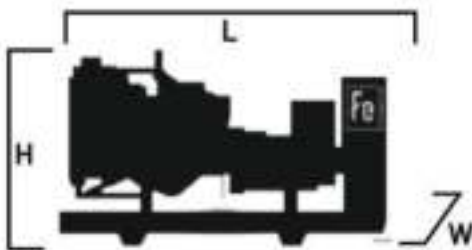
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

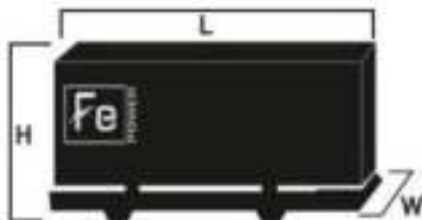
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	3000
Height (H)	mm	1800
Width (W)	mm	1100
Wet weight	kg	2295
Fuel Tank Capacity	L	210

SPECIFICATION WITH CABIN



Length (L)	mm	3500
Height (H)	mm	2140
Width (W)	mm	1200
Wet weight	kg	2880
Fuel Tank Capacity	L	345





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	292.5	325
Power	KW	234	260
Power	(cos Phi=0,8) A	421.2	468
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		SDEC
Model		QST9H272
Engine Standby Power	(kWm / hp)	263/352.69
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	8.82
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	114 x 144
Compression Rate		16.5: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	25
Engine Coolant Capacity	(L)	12
Fuel Tank	(L)	345
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	2460
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	1116
Fuel Consumption 50%	(L/h)	27
Fuel Consumption 75%	(L/h)	41
Fuel Consumption 100%	(L/h)	54

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

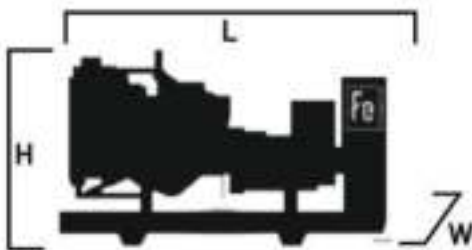
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

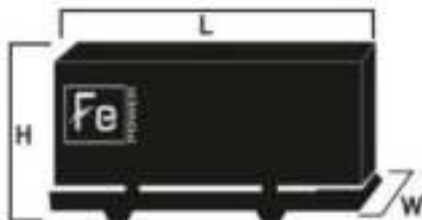
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



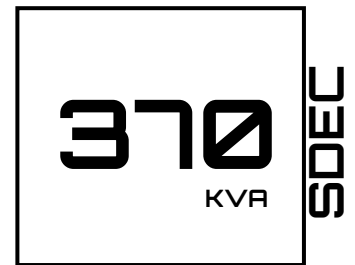
Length (L)	mm	3000
Height (H)	mm	1800
Width (W)	mm	1100
Wet weight	kg	2310
Fuel Tank Capacity	L	210

SPECIFICATION WITH CABIN



Length (L)	mm	3500
Height (H)	mm	2140
Width (W)	mm	1200
Wet weight	kg	2900
Fuel Tank Capacity	L	345





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	333	370
Power	KW	266.4	296
Power	(cos Phi=0,8) A	479.5	532.8
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

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ENGINE SPECIFICATION

Brand		SDEC
Model		QST9H340
Engine Standby Power	(kWm / hp)	308/413.03
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	8.82
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	114 x 144
Compression Rate		16.5: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	25
Engine Coolant Capacity	(L)	12
Fuel Tank	(L)	345
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	2460
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	1116
Fuel Consumption 50%	(L/h)	32
Fuel Consumption 75%	(L/h)	49
Fuel Consumption 100%	(L/h)	61

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

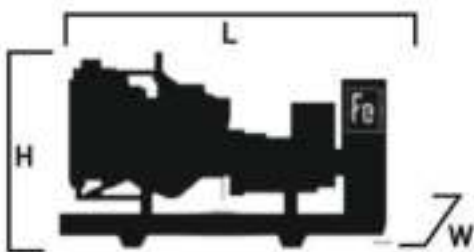
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

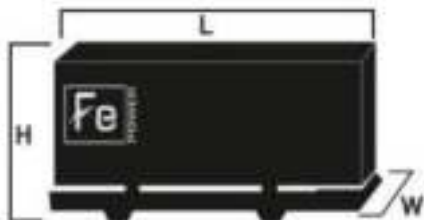
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



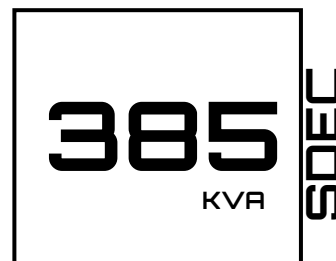
Length (L)	mm	3000
Height (H)	mm	1800
Width (W)	mm	1100
Wet weight	kg	3085
Fuel Tank Capacity	L	210

SPECIFICATION WITH CABIN



Length (L)	mm	3500
Height (H)	mm	2100
Width (W)	mm	1300
Wet weight	kg	3700
Fuel Tank Capacity	L	345





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	346.5	385
Power	KW	277.2	308
Power	(cos Phi=0,8) A	499	554.4
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

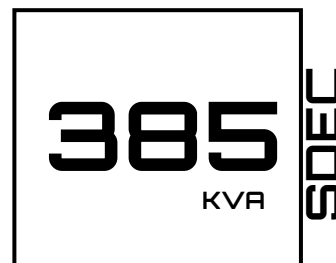
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It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		SDEC
Model		QST13H340
Engine Standby Power	(kWm / hp)	308/413.03
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	14.16
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	135 x 165
Compression Rate		15.55: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	41
Engine Coolant Capacity	(L)	25.5
Fuel Tank	(L)	580
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	3018
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	1170
Fuel Consumption 50%	(L/h)	35
Fuel Consumption 75%	(L/h)	51
Fuel Consumption 100%	(L/h)	69

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

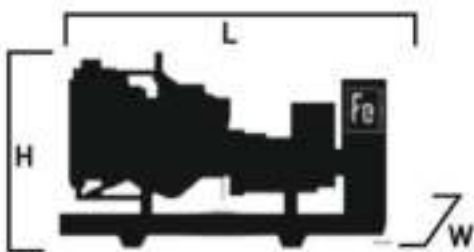
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CONTROL PANEL SPECIFICATION

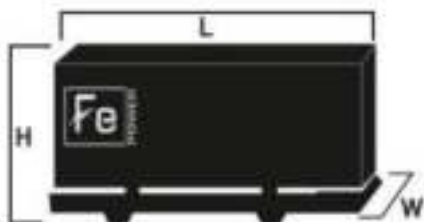
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- 400Hz operation support
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- Free configuration program
- Allows SMS controls
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- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	3000
Height (H)	mm	1850
Width (W)	mm	1100
Wet weight	kg	3085
Fuel Tank Capacity	L	210

SPECIFICATION WITH CABIN



Length (L)	mm	3500
Height (H)	mm	2350
Width (W)	mm	1600
Wet weight	kg	3700
Fuel Tank Capacity	L	580





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	373.5	415
Power	KW	298.8	332
Power	(cos Phi=0,8) A	537.8	597.6
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

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PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
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ENGINE SPECIFICATION

Brand		SDEC
Model		QST13H380
Engine Standby Power	(kWm / hp)	330/442.54
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	14.16
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	135 x 165
Compression Rate		15.55: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	41
Engine Coolant Capacity	(L)	25.5
Fuel Tank	(L)	580
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	3020
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	1170
Fuel Consumption 50%	(L/h)	38
Fuel Consumption 75%	(L/h)	53
Fuel Consumption 100%	(L/h)	72

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

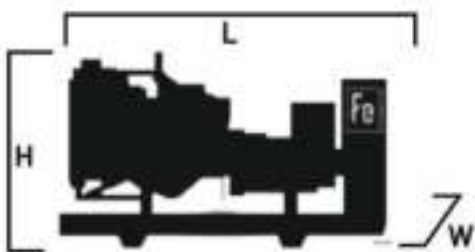
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

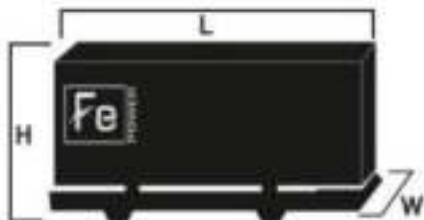
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	3500
Height (H)	mm	1850
Width (W)	mm	1200
Wet weight	kg	3125
Fuel Tank Capacity	L	345

SPECIFICATION WITH CABIN



Length (L)	mm	3500
Height (H)	mm	2350
Width (W)	mm	1600
Wet weight	kg	3850
Fuel Tank Capacity	L	580





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	427.5	475
Power	KW	342	380
Power	(cos Phi=0,8) A	615.6	684
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		SDEC
Model		QST13H435
Engine Standby Power	(kWm / hp)	375/502.88
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	14.16
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	135 x 165
Compression Rate		15.55: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	41
Engine Coolant Capacity	(L)	25.5
Fuel Tank	(L)	580
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	3020
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	1170
Fuel Consumption 50%	(L/h)	41
Fuel Consumption 75%	(L/h)	60
Fuel Consumption 100%	(L/h)	81

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

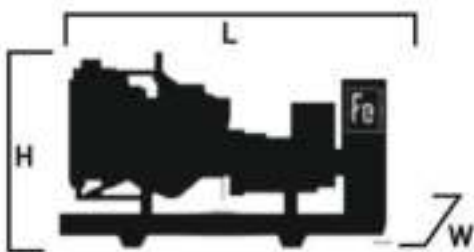
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

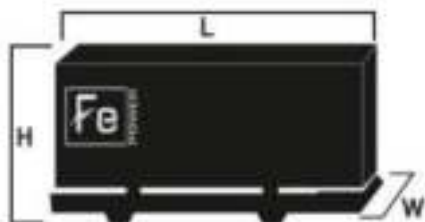
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



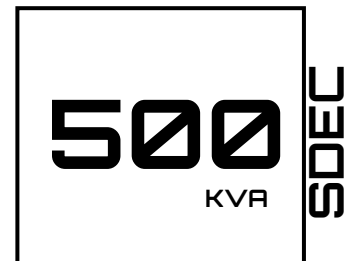
Length (L)	mm	3500
Height (H)	mm	1850
Width (W)	mm	1200
Wet weight	kg	3125
Fuel Tank Capacity	L	345

SPECIFICATION WITH CABIN



Length (L)	mm	3500
Height (H)	mm	2350
Width (W)	mm	1600
Wet weight	kg	3850
Fuel Tank Capacity	L	580





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	450	500
Power	KW	360	400
Power	(cos Phi=0,8) A	648	720
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

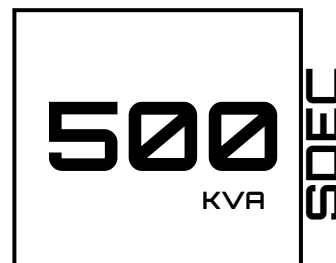
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PRIME POWER;

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STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

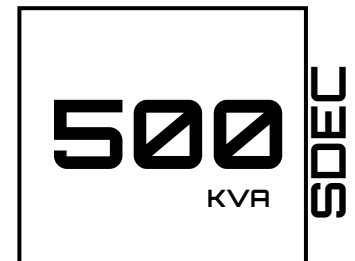
Brand		SDEC
Model		QST13H516
Engine Standby Power	(kWm / hp)	450/603.46
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	14.16
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	135 x 165
Compression Rate		15.55: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	41
Engine Coolant Capacity	(L)	25.5
Fuel Tank	(L)	580
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	3020
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	1170
Fuel Consumption 50%	(L/h)	54
Fuel Consumption 75%	(L/h)	76
Fuel Consumption 100%	(L/h)	100

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

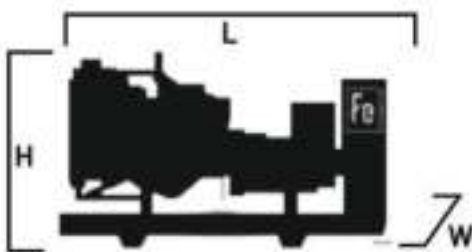
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

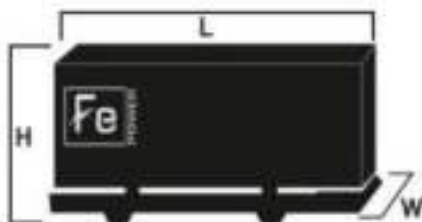
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	3500
Height (H)	mm	1850
Width (W)	mm	1200
Wet weight	kg	4253
Fuel Tank Capacity	L	345

SPECIFICATION WITH CABIN



Length (L)	mm	3500
Height (H)	mm	2350
Width (W)	mm	1600
Wet weight	kg	5503
Fuel Tank Capacity	L	580





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	495	550
Power	KW	396	440
Power	(cos Phi=0,8) A	712.8	792
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

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PRIME POWER;

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STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		SDEC
Model		QST13H516
Engine Standby Power	(kWm / hp)	450/603.46
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	14.16
Number of Cylinder		6 IN LINE
Bore x Stroke	(mm x mm)	135 x 165
Compression Rate		15.55: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	41
Engine Coolant Capacity	(L)	25.5
Fuel Tank	(L)	580
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	3020
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	1170
Fuel Consumption 50%	(L/h)	54
Fuel Consumption 75%	(L/h)	76
Fuel Consumption 100%	(L/h)	100

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

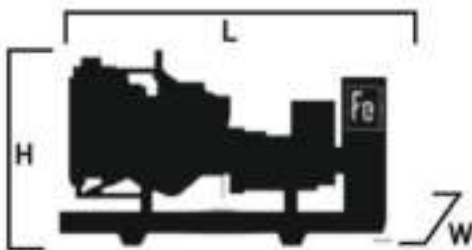
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

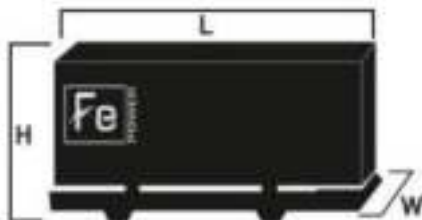
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
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- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	3500
Height (H)	mm	1850
Width (W)	mm	1200
Wet weight	kg	4422
Fuel Tank Capacity	L	345

SPECIFICATION WITH CABIN



Length (L)	mm	3500
Height (H)	mm	2350
Width (W)	mm	1600
Wet weight	kg	5502
Fuel Tank Capacity	L	580





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	567	630
Power	KW	453.6	504
Power	(cos Phi=0,8) A	816.5	907.2
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

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STANDARD FEATURES	OPTIONAL FEATURES
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ENGINE SPECIFICATION

Brand		SDEC
Model		QST26H571
Engine Standby Power	(kWm / hp)	510/683.92
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	25.8
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	135 x 155
Compression Rate		16: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	65
Engine Coolant Capacity	(L)	48
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	5970
Maximum Allowed Back Pressure	(kPa)	10
Cooling Air Flow	(m3/min)	2340
Fuel Consumption 50%	(L/h)	61
Fuel Consumption 75%	(L/h)	86
Fuel Consumption 100%	(L/h)	114

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

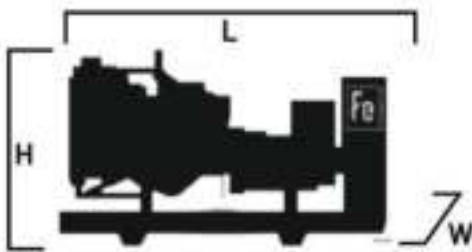
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CONTROL PANEL SPECIFICATION

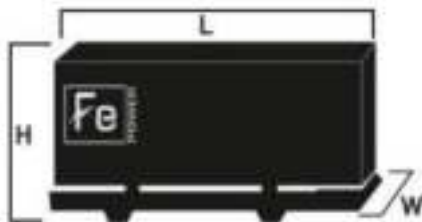
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- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
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- 128x64 graphical LCD display
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- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
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- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
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- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
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- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
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- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



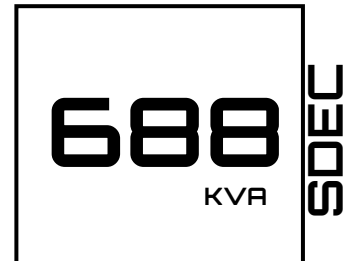
Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	4812
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	2850
Width (W)	mm	1800
Wet weight	kg	5782
Fuel Tank Capacity	L	860





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	619.2	688
Power	KW	495.4	550.4
Power	(cos Phi=0,8) A	891.7	990.7
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

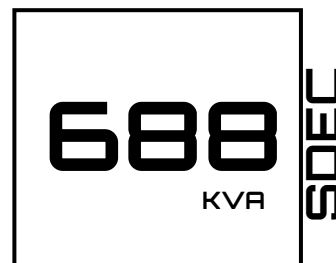
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PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

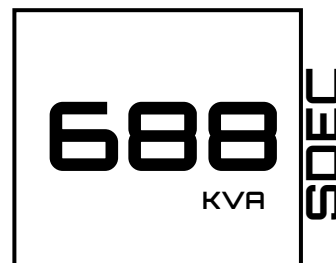
Brand		SDEC
Model		QST26H612
Engine Standby Power	(kWm / hp)	550/737.56
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	25.8
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	135 x 155
Compression Rate		16: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	65
Engine Coolant Capacity	(L)	48
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	5970
Maximum Allowed Back Pressure	(kPa)	10
Cooling Air Flow	(m3/min)	2340
Fuel Consumption 50%	(L/h)	66
Fuel Consumption 75%	(L/h)	95
Fuel Consumption 100%	(L/h)	126

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

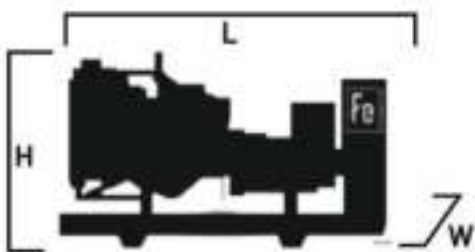
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

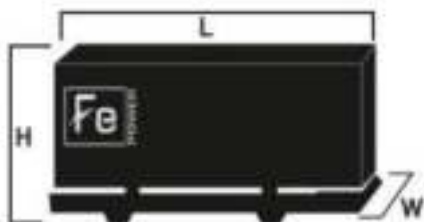
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	4956
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	2850
Width (W)	mm	1800
Wet weight	kg	5936
Fuel Tank Capacity	L	860





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	684	760
Power	KW	547.2	608
Power	(cos Phi=0,8) A	985	1094.4
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		SDEC
Model		QST26H680
Engine Standby Power	(kWm / hp)	610/818.02
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	25.8
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	135 x 155
Compression Rate		16: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	65
Engine Coolant Capacity	(L)	48
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	5970
Maximum Allowed Back Pressure	(kPa)	10
Cooling Air Flow	(m3/min)	2340
Fuel Consumption 50%	(L/h)	74
Fuel Consumption 75%	(L/h)	107
Fuel Consumption 100%	(L/h)	141

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

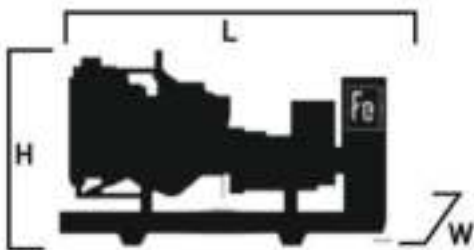
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

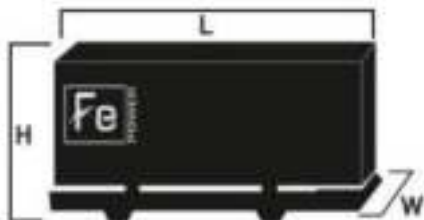
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	5016
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	2850
Width (W)	mm	1800
Wet weight	kg	5955
Fuel Tank Capacity	L	860





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	742.5	825
Power	KW	594	660
Power	(cos Phi=0,8) A	1069.2	1188
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

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PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		SDEC
Model		QST28H816
Engine Standby Power	(kWm / hp)	660/885.07
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	32.8
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	138 x 158
Compression Rate		16: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	75
Engine Coolant Capacity	(L)	56
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	625
Maximum Exhaust Gas Flow	(m3/h)	6025
Maximum Allowed Back Pressure	(kPa)	10
Cooling Air Flow	(m3/min)	2450
Fuel Consumption 50%	(L/h)	77
Fuel Consumption 75%	(L/h)	112
Fuel Consumption 100%	(L/h)	149

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

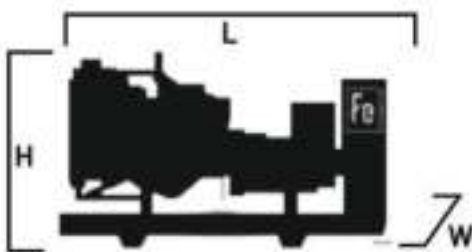
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

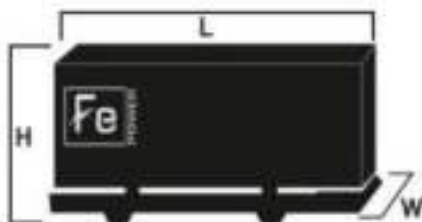
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



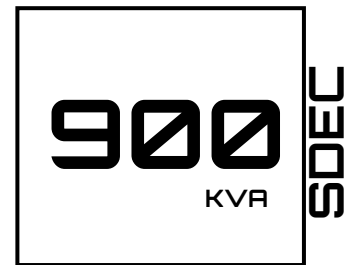
Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	6250
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	28500
Width (W)	mm	1800
Wet weight	kg	7425
Fuel Tank Capacity	L	860





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	810	900
Power	KW	648	720
Power	(cos Phi=0,8) A	1166.4	1296
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.

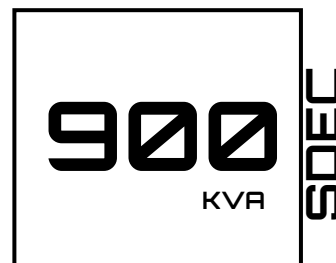


STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
(Automatic / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

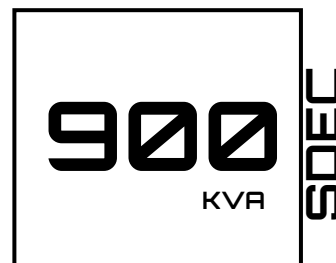
Brand		SDEC
Model		QST28H843
Engine Standby Power	(kWm / hp)	720/965.54
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	32.8
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	135 x 165
Compression Rate		16: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	75
Engine Coolant Capacity	(L)	56
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	625
Maximum Exhaust Gas Flow	(m3/h)	6025
Maximum Allowed Back Pressure	(kPa)	10
Cooling Air Flow	(m3/min)	2450
Fuel Consumption 50%	(L/h)	98
Fuel Consumption 75%	(L/h)	137
Fuel Consumption 100%	(L/h)	180

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

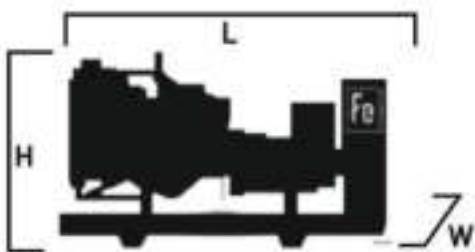
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

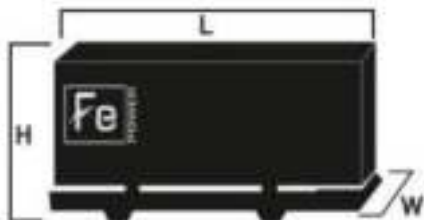
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- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
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- Downloadable languages
- Waveform display of V & I
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- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
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- Voltage unbalance protection
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- Allows SMS controls
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- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	6250
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	2850
Width (W)	mm	1800
Wet weight	kg	7425
Fuel Tank Capacity	L	860





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	877.5	975
Power	KW	702	780
Power	(cos Phi=0,8) A	1263.6	1404
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

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ENGINE SPECIFICATION

Brand		SDEC
Model		QST28H844
Engine Standby Power	(kWm / hp)	780/1046
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	32.8
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	135 x 165
Compression Rate		16: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	75
Engine Coolant Capacity	(L)	56
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	625
Maximum Exhaust Gas Flow	(m3/h)	6025
Maximum Allowed Back Pressure	(kPa)	10
Cooling Air Flow	(m3/min)	2450
Fuel Consumption 50%	(L/h)	99
Fuel Consumption 75%	(L/h)	139
Fuel Consumption 100%	(L/h)	182

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

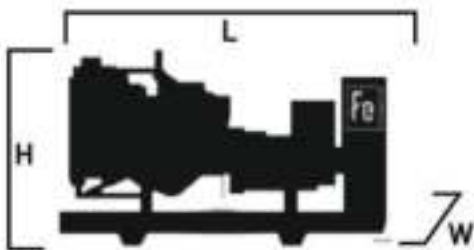
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CONTROL PANEL SPECIFICATION

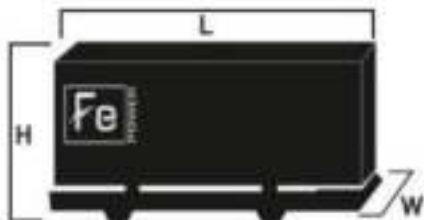
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- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



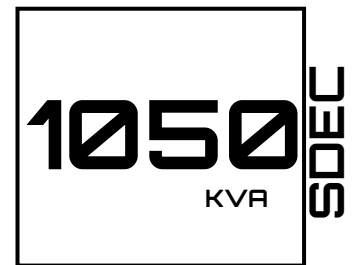
Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	6650
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	2850
Width (W)	mm	1800
Wet weight	kg	8145
Fuel Tank Capacity	L	860





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	945	1050
Power	KW	756	840
Power	(cos Phi=0,8) A	1360.8	1512
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

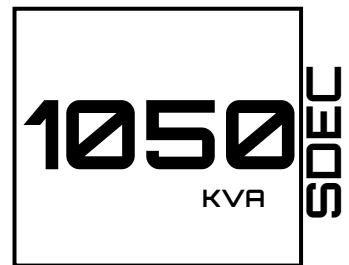
It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

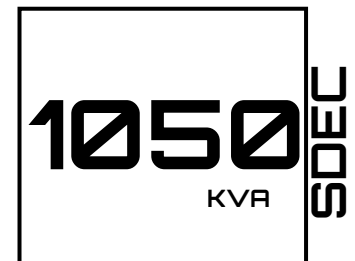
Brand		SDEC
Model		QST28H960
Engine Standby Power	(kWm / hp)	840/1126.46
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	32.8
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	135 x 168
Compression Rate		16: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	75
Engine Coolant Capacity	(L)	56
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	625
Maximum Exhaust Gas Flow	(m3/h)	6025
Maximum Allowed Back Pressure	(kPa)	10
Cooling Air Flow	(m3/min)	2450
Fuel Consumption 50%	(L/h)	100
Fuel Consumption 75%	(L/h)	141
Fuel Consumption 100%	(L/h)	185

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

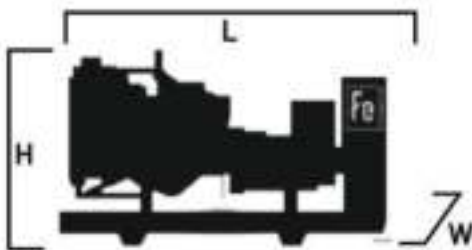
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

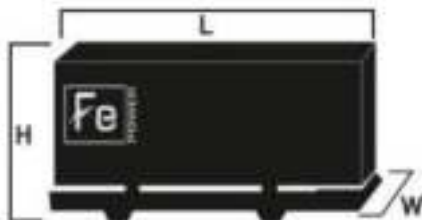
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



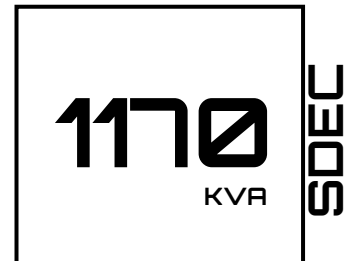
Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	6650
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	2850
Width (W)	mm	1800
Wet weight	kg	8145
Fuel Tank Capacity	L	860





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	1053	1170
Power	KW	842.4	936
Power	(cos Phi=0,8) A	1516.3	1684.8
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

Brand		SDEC
Model		QST28H1100
Engine Standby Power	(kWm / hp)	936/1255.2
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	32.8
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	135 x 168
Compression Rate		16: 01
Governor Type		ELECTRONIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	75
Engine Coolant Capacity	(L)	56
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	625
Maximum Exhaust Gas Flow	(m3/h)	6025
Maximum Allowed Back Pressure	(kPa)	10
Cooling Air Flow	(m3/min)	2450
Fuel Consumption 50%	(L/h)	102
Fuel Consumption 75%	(L/h)	145
Fuel Consumption 100%	(L/h)	189

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	92.7
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

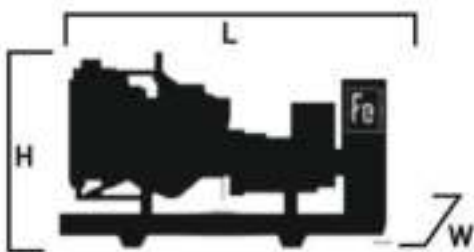
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

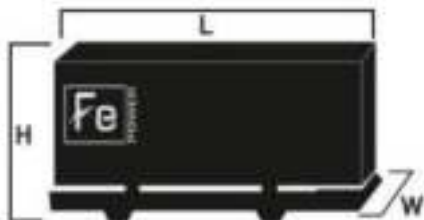
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	7290
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	2850
Width (W)	mm	1800
Wet weight	kg	8600
Fuel Tank Capacity	L	860





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	1125	1250
Power	KW	900	1000
Power	(cos Phi=0,8) A	1620	1800
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

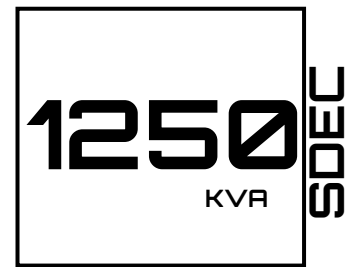
Brand		SDEC
Model		QST28H1210
Engine Standby Power	(kWm / hp)	1020/1367.84
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	30.56
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	138 x 168
Compression Rate		16: 01
Governor Type		MECHANICAL
Cooling System		NATURAL
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	153
Engine Coolant Capacity	(L)	143
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	445
Maximum Exhaust Gas Flow	(m3/min)	190
Maximum Allowed Back Pressure	(kPa)	27
Cooling Air Flow	(m3/min)	1305
Fuel Consumption 50%	(L/h)	105
Fuel Consumption 75%	(L/h)	149
Fuel Consumption 100%	(L/h)	194

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	94.2
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

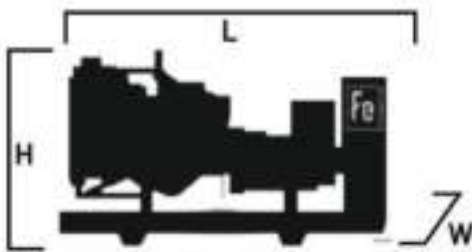
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

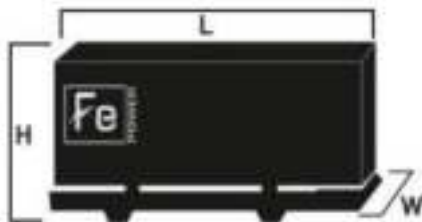
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
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- Mains power counters
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- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



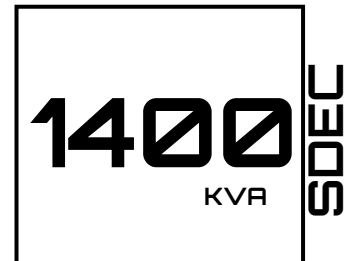
Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	7290
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	2850
Width (W)	mm	1800
Wet weight	kg	8600
Fuel Tank Capacity	L	860





GENERAL FEATURES		PRIME	STANDBY
Power	KVA	1260	1400
Power	KW	1008	1120
Power	(cos Phi=0,8) A	1814.4	2016
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

STANDBY POWER;

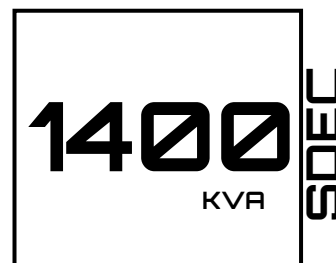
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PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> • 4 Stroke, 1500 RPM, water cooled heavy duty diesel • Dry type replaceable air filter • Radiator capable of cooling up to 50 ° C • Flexible oil pipes and oil draining valve • Pre-heater • 4 Poles, synchronize, single bearing, brushless alternator • Batteries and cables • Electrostatic paint coated, steel, welded chassis • Fuel tank housed in the chassis. • Industrial type silencer • Electronic battery charger • Electrical wiring diagram • User manual and operating manual 	<ul style="list-style-type: none"> • Soundproof canopy • Automatic transfer switch • Circuit breaker • Trailer / Land transport • External fuel tank • Heating system for fuel tank • Oil heater • Fuel filling system (Automatic / Manuel) • Analogue indicators • 1 - 3 Phase switch plugs • Alarm system for fuel level • Remote control monitoring system



ENGINE SPECIFICATION

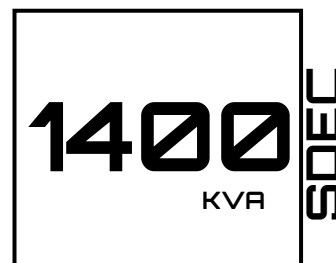
Brand		SDEC
Model		QST32H1340
Engine Standby Power	(kWm / hp)	1120/1501.94
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	30.56
Number of Cylinder		12 TYPE V
Bore x Stroke	(mm x mm)	138 x 168
Compression Rate		16 : 01
Governor Type		MECHANICAL
Cooling System		NATURAL
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	24
Lubrication Oil Capacity	(L)	153
Engine Coolant Capacity	(L)	143
Fuel Tank	(L)	860
Maximum Exhaust Gas Temperature	(°C)	445
Maximum Exhaust Gas Flow	(m3/min)	190
Maximum Allowed Back Pressure	(kPa)	27
Cooling Air Flow	(m3/min)	1305
Fuel Consumption 50%	(L/h)	109
Fuel Consumption 75%	(L/h)	154
Fuel Consumption 100%	(L/h)	200

* Replaceable cylinder jacket * Dry type replaceable oil filter *Heat –resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	94.2
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

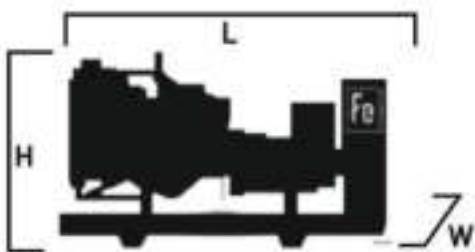
*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator *Electronic type automatic voltage regulator [AVR]



CONTROL PANEL SPECIFICATION

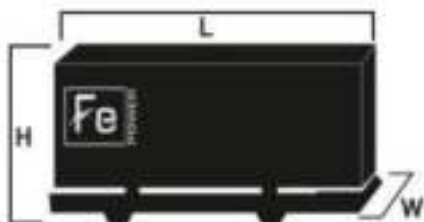
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- Multiple automatic exerciser
- Weekly operation schedule
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- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
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- Battery charge run enabled
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- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

SPECIFICATION WITHOUT CABIN



Length (L)	mm	4500
Height (H)	mm	2250
Width (W)	mm	1800
Wet weight	kg	7290
Fuel Tank Capacity	L	860

SPECIFICATION WITH CABIN



Length (L)	mm	4500
Height (H)	mm	2850
Width (W)	mm	1800
Wet weight	kg	8600
Fuel Tank Capacity	L	860



NUVO CERT

AT SERTİFİKA / EC CERTIFICATE

DEMİR MAKİNE İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ

Osmangazi Mahallesi Mertler Caddesi Şenlik Sokak No:6 Sancaktepe/İstanbul/Türkiye

NUVO TEKNİK, YUKARIDA BELİRTİLEN ÜRETİCİNİN 2006/42/EC MAKİNE EMNİYET YÖNETMELİĞİ(2006/42/EC) DÜŞÜK VOLTAJ DİREKTİFİNE GÖRE BİR KALİTE YÖNETİM SİSTEMİ UYGULADIĞINI, BU YÖNETİM SİSTEMİ YÖNETİMLİĞİN SADECE BAŞLI GEÇEN ÖRÜNÜN ÜRETİMİNİN GÜVENLİK VE STERİL KOŞULLARINI SAĞLAMAK VE DEVAM ETTİRME İLE İLGİLİ GEREKLİLİKLERİN KARŞILANDIĞINI BEYAN EDER. ORYANLANAN BU KALİTE YÖNETİM SİSTEMİ, 2006/42/EC MAKİNE EMNİYET YÖNETMELİĞİ(2006/42/EC) DÜŞÜK VOLTAJ DİREKTİFİNE GÖRE PERİYODİK OLARAK GÖZETİM VE HABERİŞ SAHA DENETİMLERİNE TABİDİR. ÜRETKE ÖRNEKLERİNİN TAYINIMINDA VE YAKININDA GERÇEKLEŞTİRİLDİĞİ ÖNEMLİ DEĞİŞİMLERİN NUVO TEKNİK'E BİLDİRİLMESİ ZORUNDAKİDİR.

NUVO TECHNIC INTERNATIONAL, DECLARES THAT THE AFOREMENTIONED MANUFACTURING IMPLEMENTED A QUALITY ASSURANCE SYSTEM ACCORDING TO 2006/42/EC MACHINERY DIRECTIVE(2006/42/EC) LOW VOLTAGE (LVD) DIRECTIVE. THIS QUALITY ASSURANCE SYSTEM COVERS THOSE ASPECTS OF MANUFACTURING CONCERNED WITH SECURING AND MAINTAINING SAFE AND STERILE CONDITIONS OF THE RESPECTIVE PRODUCTS AND CONFORMS TO THE PROVISIONS OF THIS DIRECTIVE. THE APPROVED QUALITY SYSTEM IS SUBJECT TO SURVEILLANCE PURSUANT TO 2006/42/EC MACHINERY DIRECTIVE(2006/42/EC) LOW VOLTAGE (LVD) DIRECTIVE AND UNANNOUNCED AUDITS. NUVO TECHNIC, MUST BE INFORMED OF ANY SIGNIFICANT CHANGES IN THE DESIGN AND/OR PRODUCTS.

REF. NO. / ÖRÜN TANIMI / DESCRIPTION OF THE PRODUCT: EMNİYETLİ JENERATÖR; PERKINS (FE-P 30, FE-P 17, FE-P 22, FE-P 23, FE-P 25, FE-P 30, FE-P 35, FE-P 40, FE-P 45, FE-P 50, FE-P 55, FE-P 60, FE-P 65, FE-P 70, FE-P 75, FE-P 80, FE-P 85, FE-P 90, FE-P 95, FE-P 100, FE-P 110, FE-P 120, FE-P 130, FE-P 140, FE-P 150, FE-P 160, FE-P 170, FE-P 180, FE-P 190, FE-P 200, FE-P 210, FE-P 220, FE-P 230, FE-P 240, FE-P 250, FE-P 260, FE-P 270, FE-P 280, FE-P 290, FE-P 300, FE-P 310, FE-P 320, FE-P 330, FE-P 340, FE-P 350, FE-P 360, FE-P 370, FE-P 380, FE-P 390, FE-P 400, FE-P 410, FE-P 420, FE-P 430, FE-P 440, FE-P 450, FE-P 460, FE-P 470, FE-P 480, FE-P 490, FE-P 500, FE-P 510, FE-P 520, FE-P 530, FE-P 540, FE-P 550, FE-P 560, FE-P 570, FE-P 580, FE-P 590, FE-P 600, FE-P 610, FE-P 620, FE-P 630, FE-P 640, FE-P 650, FE-P 660, FE-P 670, FE-P 680, FE-P 690, FE-P 700, FE-P 710, FE-P 720, FE-P 730, FE-P 740, FE-P 750, FE-P 760, FE-P 770, FE-P 780, FE-P 790, FE-P 800, FE-P 810, FE-P 820, FE-P 830, FE-P 840, 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FE-P 1770, FE-P 1780, FE-P 1790, FE-P 1800, FE-P 1810, FE-P 1820, FE-P 1830, FE-P 1840, FE-P 1850, FE-P 1860, FE-P 1870, FE-P 1880, FE-P 1890, FE-P 1900, FE-P 1910, FE-P 1920, FE-P 1930, FE-P 1940, FE-P 1950, FE-P 1960, FE-P 1970, FE-P 1980, FE-P 1990, FE-P 2000, FE-P 2010, FE-P 2020, FE-P 2030, FE-P 2040, FE-P 2050, FE-P 2060, FE-P 2070, FE-P 2080, FE-P 2090, FE-P 2100, FE-P 2110, FE-P 2120, FE-P 2130, FE-P 2140, FE-P 2150, FE-P 2160, FE-P 2170, FE-P 2180, FE-P 2190, FE-P 2200, FE-P 2210, FE-P 2220, FE-P 2230, FE-P 2240, FE-P 2250, FE-P 2260, FE-P 2270, FE-P 2280, FE-P 2290, FE-P 2300, FE-P 2310, FE-P 2320, FE-P 2330, FE-P 2340, FE-P 2350, FE-P 2360, FE-P 2370, FE-P 2380, FE-P 2390, FE-P 2400, FE-P 2410, FE-P 2420, FE-P 2430, FE-P 2440, FE-P 2450, FE-P 2460, FE-P 2470, FE-P 2480, FE-P 2490, FE-P 2500, FE-P 2510, FE-P 2520, FE-P 2530, FE-P 2540, FE-P 2550, FE-P 2560, FE-P 2570, FE-P 2580, FE-P 2590, FE-P 2600, FE-P 2610, FE-P 2620, FE-P 2630, FE-P 2640, FE-P 2650, FE-P 2660, FE-P 2670, 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