



**Water Cooled**



**50 Hz**



**Easy  
Maintenance**



**Three Phase**



**Diesel**



**Warning System  
for Fuel Level**

## GENERAL FEATURES

## PRIME

## STANDBY

<b>Power</b>	KVA	20	22
<b>Power</b>	KW	18.7	20.5
<b>Power</b>	(cos Phi=0,8) A	29	32
Standard Voltage	V	400/230	
Revolutions per minute	r.p.m	1500	
Rated at power factor	Cos Phi	0,8	

Our company has ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 10002:2018 quality certificates. Fe Power generators comply with the CE marking, which includes the following directives:

- 2006/42/EC, Machinery safety
- 2006/95/EC, Low Voltage (LVD) Directive
- TS EN 60204-1, TS EN 88528-11, TS 12650, TS ISO 8528-1, TS ISO 8528-2, TS ISO 8528-3, TS ISO 8528-4, TS ISO 8528-5, TS ISO 8528 - 6, TS ISO 8528 - 8, TS ISO 8528-12, TS 3033 EN 60529, TS EN 60034-22, TS EN 88528-11, TS HD 60364-5-551

## STANDARD FEATURES

- 4 Stroke, 1500 RPM, water-cooled heavy-duty diesel engine
- 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		PERKINS
Model		404A-22G1
Standby / Prime	(kW)	20.5/18.7
Revolutions Per Minute	(r.p.m.)	1500
Cylinder Displacement	(L)	2.216
Number of Cylinder		4 IN LINE
Bore x Stroke	(mm x mm)	84x 100
Compression Rate		23.3: 1
Governor Type		MECHANIC
Cooling System		TURBO CHARGER INTERCOOLED
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(V)	12
Lubrication Oil Capacity	(L)	10
Engine Coolant Capacity	(L)	7
Fuel Tank	(L)	75
Fuel Consumption 50%	(L/h)	2.9
Fuel Consumption 75%	(L/h)	4
Fuel Consumption 100%	(L/h)	5.3

\* 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 22
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]

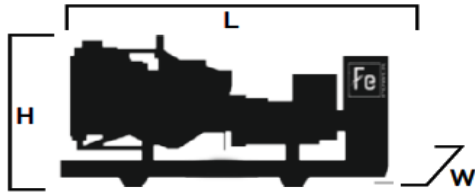
#### STANDBY POWER;

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

#### PRIME POWER;

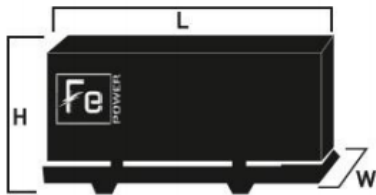
It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 1 hour per 12 hours.

## SPECIFICATION WITHOUT CABIN



Length (L)	mm	2000
Height (H)	mm	1100
Width (W)	mm	800
Wet weight	kg	446
Fuel Tank Capacity	L	75

## SPECIFICATION WITH CABIN



Length (L)	mm	2000
Height (H)	mm	1300
Width (W)	mm	800
Wet weight	kg	630
Fuel Tank Capacity	L	75

## GENSET CONTROLLERS



**Datakom D-300 MK3**

## 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 aging of
- Manual "speed fine adjust" on selected ECUs
- 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