



Water Cooled



50 Hz



Easy  
Maintenance



Three Phase



Diesel



Warning System  
for Fuel Level

## GENERAL FEATURES

## PRIME

## STANDBY

|                        |                 |         |      |
|------------------------|-----------------|---------|------|
| Power                  | KVA             | 810     | 900  |
| Power                  | KW              | 655     | 720  |
| Power                  | (cos Phi=0,8) A | 1166    | 1296 |
| 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                    |           | QSTRONG                   |
| Model                    |           | QST28H843                 |
| Standby / Prime          | (kW)      | 720/655                   |
| Revolutions Per Minute   | (r.p.m.)  | 1500                      |
| Cylinder Displacement    | (L)       | 28                        |
| Number of Cylinder       |           | 12 IN LINE                |
| Bore x Stroke            | (mm x mm) | 135x158                   |
| Compression Rate         |           | 16: 1                     |
| Governor Type            |           | ELECTRONIC                |
| Cooling System           |           | TURBO CHARGER INTERCOOLED |
| Spray Shape              |           | DIRECT                    |
| Cooling Shape            |           | WATER COOLED              |
| Electric System          | (V)       | 24                        |
| Lubrication Oil Capacity | (L)       | 57                        |
| Engine Coolant Capacity  | (L)       | 84                        |
| Fuel Tank                | (L)       | 510                       |
| Fuel Consumption 50%     | (L/h)     | 87                        |
| Fuel Consumption 75%     | (L/h)     | 131                       |
| Fuel Consumption 100%    | (L/h)     | 173                       |

\* 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 | 4500 |
| Height (H)         | mm | 2200 |
| Width (W)          | mm | 2000 |
| Wet weight         | kg | 6250 |
| Fuel Tank Capacity | L  | 510  |

## SPECIFICATION WITH CABIN



|                    |    |      |
|--------------------|----|------|
| Length (L)         | mm | 4500 |
| Height (H)         | mm | 2500 |
| Width (W)          | mm | 2000 |
| Wet weight         | kg | 7650 |
| Fuel Tank Capacity | L  | 510  |

## 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