

### General Features

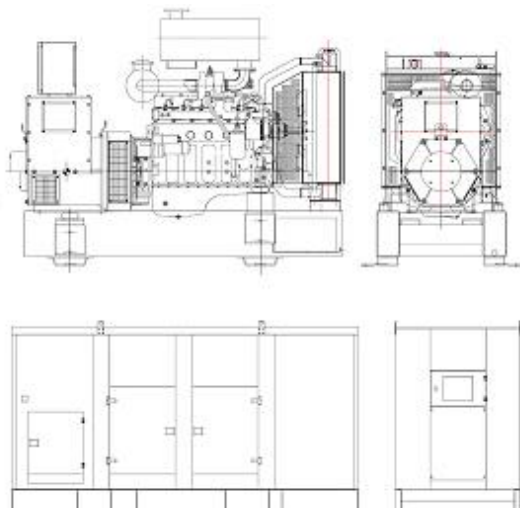
- Engine (DEUTZ BFM3C), Radiator 50°C max, belt driven fans, with safety guard
- 24V charge alternator
- Alternator (Stamford, Leroy Somer & Mecc Alte for option), single bearing alternator IP23, insulation class H/H
- Skid and vibration isolators
- Dry type air filter, fuel filter, oil filter
- Main line circuit breaker
- Standard control panel
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, industrial muffler

PHOTO FOR REFERENCE ONLY



### Technical Data

|                            |            |
|----------------------------|------------|
| Output Frequency           | 50 Hz      |
| Rated Speed                | 1500RPM    |
| Prime Power                | 60KVA/48KW |
| Standby Power              | 65KVA/52KW |
| Rated Voltage              | 400/230V   |
| Phase                      | 3          |
| Power Factor               | 0.8        |
| Fuel Consumption 100% Load | 11.2L/Hr   |
| Fuel Consumption 75% Load  | 8.7L/Hr    |
| Fuel Consumption 50% Load  | 6L/Hr      |
| Operation Altitude         | ≤1500m     |
| Ambient Temperature        | ≤50°C      |



### Dimension and Weight

| Genset Type    | Open Frame | Soundproof |
|----------------|------------|------------|
| Length(L) (mm) | 1600       | 2000       |
| Width(W) (mm)  | 700        | 900        |
| Height(H) (mm) | 1300       | 1260       |
| Weight (kg)    | 900        | 1220       |

**Engine Specification**

|                                  |                          |
|----------------------------------|--------------------------|
| Manufacturer / Model:            | DEUTZ BFM3C, 4-cycle     |
| Air Intake System:               | CAC                      |
| Fuel System:                     | In-line pump             |
| Cylinder Arrangement:            | 4 in line                |
| Displacement:                    | 3.168L                   |
| Bore and Stroke:                 | 98*105 (mm)              |
| Compression Ratio:               | 18.5:1                   |
| Rated RPM:                       | 1500rpm                  |
| Max. Standby Power at Rated RPM: | 50KW                     |
| Governor Type:                   | Electric                 |
| Exhaust Gas Flow:                | 5.5m <sup>3</sup> /min   |
| Exhaust Temperature:             | 560°C                    |
| Max Back Pressure:               | 100mbar                  |
| Max Intake Restriction:          | 30mbar                   |
| Burning Capacity:                | 2.83m <sup>3</sup> /min  |
| Cooling Air Flow:                | 81m <sup>3</sup> /min    |
| Oil Capacity:                    | 7.5L                     |
| Oil Consumption:                 | 0.5% of fuel consumption |
| Coolant Capacity (Engine):       | 4.8L                     |
| Thermostat:                      | 78-90°C                  |
| Max Water Temperature:           | 103°C                    |

**Alternator Specification**

|                                     |                          |
|-------------------------------------|--------------------------|
| Manufacturer / Model:               | STAMFORD S1L2-R1         |
| Number of Phase:                    | 3                        |
| Stator Winding:                     | Double Layer Concentric  |
| Winding Leads:                      | 12                       |
| Number of Bearing:                  | 1                        |
| Protection Grade:                   | IP23                     |
| Exciter Type:                       | Brushless, self-exciting |
| Insulation Class, Temperature Rise: | H/H                      |
| Telephone Influence Factor (TIF):   | < 50                     |
| THF:                                | < 2%                     |
| Voltage Regulation, Steady State:   | ≤ ± 1%                   |
| Alternator Capacity:                | 50KVA                    |
| Alternator Efficiencies:            | 89.2%                    |
| Air Cooling Flow:                   | 0.176m <sup>3</sup> /s   |

**Control System**

**Standard Deepsea DSE6020 Auto Mains Failure Control Panel**

- Manual or Auto Start Module for single genset applications. Designed to work with electronic and non-electronic engines, providing advanced engine monitoring and protection features.
- Includes a back-lit icon LCD display which shows the status of the engine at all times. Monitors engine speed, frequency, voltage and run hours and also displays the warning and shutdown status.
- Includes extensive outputs and inputs making this product ideal for a wide variety of applications. It can either be programmed using the front panel or by using DSE PC software.



**Optional Deepsea DSE7320 Auto Mains Failure Control Panel**

- Auto Mains (Utility) Failure Control Module suitable for a wide variety of single genset applications.
- Displays warnings, shutdown and engine status info on the back-lit LCD screen, illuminated LEDs, remote PC. Monitors the mains (utility) supply. Includes USB, RS232 and RS485 ports for system expansion.
- Compatible with electronic and non-electronic engines and offer flexible inputs, outputs and engine protections to meet extensive industry requirements.
- Includes enhanced event and performance monitoring, remote communications to reduce engine wear. It can either be programmed using the front panel or by using DSE PC software.



**Optional Deepsea DSE8610 Auto Paralleling Control Panel**

- Synchronizing Auto Start Control Module for multi-genset load share system, designed to synchronize up to 32 gensets including electronic and non-electronic engines.
- Monitors the genset and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.
- System alarms are annunciated on the LCD screen, illuminated LED and audible sounder.
- Records 250 events log for maintenance. Extensive monitoring, metering and protection features are included as well as comprehensive communication and system expansion options.
- Using DSE PC Software allows alteration of the operational sequences, timers, alarms with all communication ports active.



**Options****Engine**

- Water Jacket Preheater
- Water Separator
- Oil Pump
- Oil Preheater
- Battery Charger

**Fuel System**

- Daily Fuel Tank
- External Fuel Tank
- Auto Fuel Filling System
- Fuel Level Sensor

**Control System**

- Auto Remote Control Panel
- AMF Function Control Panel
- Auto Paralleling Control Panel
- Auto Transfer Switch (ATS)
- ABB breaker

**Alternator**

- Anti Condensation Heater
- Permanent Magnet Generator
- Winding Temp Sensor

**Enclosure**

- Rainproof Type
- Soundproof Rental Type
- Mobile Type

**Available Voltages**

- 440/254V
- 415/240V
- 380/220V

**Reference Standards**

**Generator Set:** ISO 8528, CE

**Engine:** ISO 3046, BS 5514, DIN 6271

**Alternator:** BS EN 60034, IEC34, BS5000, NEMA MG1-32, VDE 0530, CSA C22.2-100, AS1359

**Warranty**

Mega Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: A. 15 months, counted on the day Mega sold to the first buyer; B. One year after installation; C. 1000 running hours (accumulated); subject to the earlier one.

Service and spare parts are available from Mega Power or distributors in your location.