

# MP-200C

### General Features

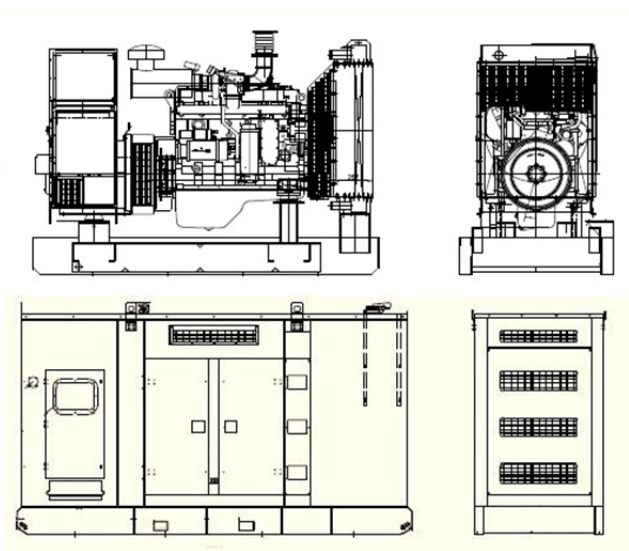
- Engine (DCEC Cummins 6CTA8.3-G2), Radiator 50°C max, belt driven fans, with safety guard
- 24V charge alternator
- Alternator (Stamford, Leroy Somer & Mecc Alte for option), single bearing alternator IP23, insulation class H/H
- Skid and vibration isolators
- Dry type air filter, fuel filter, oil filter
- 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                | 181KVA/145KW |
| Standby Power              | 200KVA/160KW |
| Rated Voltage              | 400/230V     |
| Phase                      | 3            |
| Power Factor               | 0.8          |
| Fuel Consumption 100% Load | 42L/Hr       |
| Fuel Consumption 75% Load  | 31L/Hr       |
| Fuel Consumption 50% Load  | 21L/Hr       |
| Operation Altitude         | ≤1500m       |
| Ambient Temperature        | ≤50°C        |



### Dimension and Weight

| Genset Type       | Open Frame | Soundproof |
|-------------------|------------|------------|
| Length(L) (mm)    | 2420       | 3300       |
| Width(W) (mm)     | 990        | 1150       |
| Height(H) (mm)    | 1650       | 1900       |
| Gross Weight (kg) | 1850       | 2450       |

**MP-200C****Engine Specification**

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Manufacturer / Model:                 | DCEC Cummins 6CTA8.3-G2, 4-cycle |
| Air Intake System:                    | Turbo, Water/Air Cooling         |
| Fuel System:                          | BYC PB/ Electronic Governor      |
| Cylinder Arrangement:                 | 6 in line                        |
| Displacement:                         | 8.3L                             |
| Bore and Stroke:                      | 114*135 (mm)                     |
| Compression Ratio:                    | 17.3:1                           |
| Rated RPM:                            | 1500rpm                          |
| Max. Standby Power at Rated RPM:      | 180KW                            |
| Governor Type:                        | Electronic                       |
| Intake Air Flow:                      | 206L/sec                         |
| Exhaust Gas Flow:                     | 578L/sec                         |
| Exhaust Temperature:                  | 563°C                            |
| Max Back Pressure:                    | 10kPa                            |
| Max Intake Restriction:               | 6kPa                             |
| Total Oil Capacity:                   | 27.6L                            |
| Oil Consumption:                      | ≤4g/kwh                          |
| Total Coolant Capacity – Engine Only: | 12.3L                            |
| Thermostat:                           | 82-95°C                          |
| Max Water Temperature:                | 104°C                            |

**Alternator Specification**

|                                     |  |
|-------------------------------------|--|
| Manufacturer / Model:               | STAMFORD UCI 274G1                       |
| Number of Phase:                    | 3  |
| Connecting Type:                    | 3 Phase and 4 Wires, "Y" type connecting |
| Number of Bearing:                  | 1  |
| Protection Grade:                   | IP23                                     |
| Exciter Type:                       | Brushless, self-exciting                 |
| Insulation Class, Temperature Rise: | H/H                                      |
| TIF:                                | < 50                                     |
| THF:                                | < 2%                                     |
| Voltage Regulation, Steady State:   | ≤ ± 1%                                   |
| Alternator Capacity:                | 182KVA                                   |
| Alternator Efficiencies:            | 92.4%                                    |
| Air Cooling Flow:                   | 0.514m <sup>3</sup> /s                   |

# MP-200C

## 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.



**MP-200C****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.