



MP-109C

General Features

- Engine (DCEC Cummins 6BT5.9-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
- Two12V 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 100KVA/80KW
Standby Power 109KVA/87KW
Rated Voltage 400/230V
Phase 3
Power Factor 0.8

Fower Factor 0.8

Fuel Consumption 100% Load 22.3L/Hr

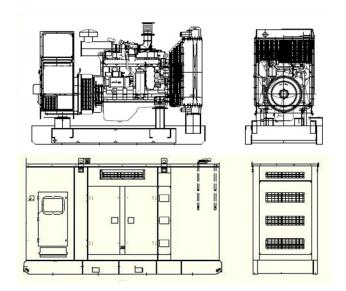
Fuel Consumption 75% Load 16.9L/Hr

Fuel Consumption 50% Load 11.3L/Hr

Operation Altitude 41500m

Ambient Temperature 50°C





Dimension and Weight

Open Frame	Soundproof
2185	2800
990	1150
1650	1800
1380	1900
	2185 990 1650





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Engine Specification

Manufacturer / Model: DCEC Cummins 6BT5.9-G2, 4-cycle

Air Intake System: **Turbo Charged**

Fuel System: BYC A/Electronic Governor

6 in line Cylinder Arrangement: 5.9L Displacement: Bore and Stroke:

102*120 (mm) Compression Ratio: 17.3:1

Rated RPM: 1500rpm

92KW Max. Standby Power at Rated RPM:

Governor Type: Electronic

Intake Air Flow: 108L/sec

Exhaust Gas Flow: 280L/sec **Exhaust Temperature:** 565℃

Max Back Pressure: 10kPa

Max Intake Restriction: 6.2kPa

Total Oil Capacity: 16.4L

≪4g/kwh Oil Consumption:

Total Coolant Capacity - Engine Only: 7.9L

Thermostat: 82-95℃

Max Water Temperature: 104℃

Alternator Specification

Manufacturer / Model: STAMFORD UCI 274C1

Number of Phase:

3 Phase and 4 Wires, "Y" type connecting Connecting Type:

Number of Bearing:

Protection Grade: IP23

Exciter Type: Brushless, self-exciting

Insulation Class, Temperature Rise: H/H TIF: < 50

THF: <2%

100KVA **Alternator Capacity:**

90.3%

 $0.514 \text{m}^3/\text{s}$ Air Cooling Flow:

Voltage Regulation, Steady State:

Alternator Efficiencies:

≤±1%





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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.

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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.







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Options

Engine

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

Alternator

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

Fuel System

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

Enclosure

- Rainproof Type
- Soundproof Rental Type
- Mobile Type

Control System

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

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.