MPMC BEYOND ENERGY

# Model: MC200(S)-1

Powered by Cummins


## Applicable Standards

- ISO 8528-5:2018
- GB/T2820.5-2009
- CE

| General Information | | Prime power | Standby power |
|---|---|---|---|
| Rated Power (kVA) | | 200 | 220 |
| Power Rating (kW) | | 160 | 176 |
| Frequency (Hz) | | 50 | |
| Engine Model | | 6CTAA8.3-G2 | |
| Engine Speed (RPM) | | 1500 | |
| Phase | | 3 | |
| PF | | 0.8 | |
| Control System | | Digital | |
| Rated voltage (V) | | 400/230<br>(According to customer requirements) | |
| Fuel tank capacity operating time | | ≥ 8h @ 75% load | |
| Fuel Consumption (L/h) | 110% load | 51 | |
| | 100% load | 45 | |
| | 75% load | 34 | |
| | 50% load | 23 | |

## Environmental Conditions

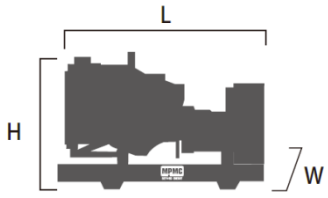
- Ambient temperature: +5°C~+40°C
- Altitude: ≤1000m
  Remark: If your conditions are different from the above, please contact our sales.

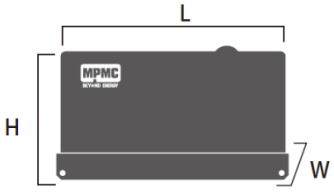
## Factory Inspection

- Complete design and quality inspection
- 0%, 25%, 50%, 75%, 100%, 110% load test.
- Function test.
- Protection test

## Painting Process

- MPMC has the most advanced automatic spraying / powder coating production line, and is equipped with various sandblasting equipment to ensure higher quality.
- Canopy painting: Henkel pretreatment process and world famous brand AkzoNobel powder.
- Base Frame painting: Sandblasting process and AkzoNobel powder (Hempel paint is optional).




| Dimension and Weight | | |
|---|---|---|
| Model | MC200-1<br>Open type | MC200S-1<br>Silent type |
| Length (L) mm | 2750 | 3600 |
| Width (W) mm | 1070 | 1330 |
| Height (H) mm | 1590 | 2080 |
| Dry weight (kg) | 1730 | 2798 |
| Tank capacity (L) | 440 | 647 |
| The loading capacity (40'HC) | 8 units | 6 units |

Note: Specifications and illustrations are subject to revision without notice.

ISO9001 : 2015 Quality system certified
ISO14001 System certification
OHSAS18001 System certification
CE certificate

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## Engine Specifications

| Engine model & manufacturer | | 6CTAA8.3-G2 (Cummins) |
|---|---|---|
| Emission Certification | | MEP STAGE I |
| Number of cylinders | | 6 |
| Cylinder arrangement | | In-line |
| Cycle | | Four stroke |
| Aspiration | | Turbocharged |
| Bore x Stroke | | 114 x 135 mm |
| Displacement | | 8.3 L |
| Compression ration | | 18.0:1 |
| Prime power /speed | | 183 kW/1500 rpm |
| Standby power /speed | | 203 kW/1500 rpm |
| Speed governor | | Electronic |
| Cooling system | | Forced Water Cooling Cycle |
| Frequency droop | | ≤ 3% |
| Total lubrication system capacity | | 23.8 L |
| Coolant capacity (engine only) | | 12.3 L |
| Fuel consumption | 100% load | 205 g/kWh @1500 rpm |
| Starter motor | | DC 24V |
| Charge alternator | | DC 24V |

- Heavy duty diesel engine
- Anti-vibration mount
- Replaceable fuel filter, oil filter & air filter
- Cooling radiator and fan
- Starter battery (with lead acid) including rack and cables
- Flexible fuel connection hoses
- Exhaust silencer and bellows
- Operation manuals and circuit diagram documents

## Alternator Specifications

| Alternator | |
|---|---|
| Number of phase | 3 |
| Power factor (Cos Phi) | 0.8 |
| Poles | 4 |
| Insulation type | H class |
| Winding Pitch | 2/3 |
| IP rating | IP23 |
| Bearing | Single bearing |
| Voltage regulator | A.V.R |
| Coupling | Flexible disc |

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# Control Panel

## DSE 4520 MKII

Auto start and auto mains failure control module
(Alternator frequency & can speed sensing)


### Key benefits

- Ultimate size to feature ratio.
- Automatically transfers between mains (utility) and generator.
- Hours counter provides accurate information for monitoring and maintenance periods.
- User-friendly set-up and button layout for ease of use.
- Multiple parameters are monitored simultaneously which are clearly displayed on the largest back-lit icon display in its class.
- The module can be configured to suit a wide range of applications.
- Compatible with a wide range of CAN engines including Tier 4.
- IP65 rating (with optional gasket) offers increased resistance to water ingress.

### Key features

- Auto Start and AMF mode in one module.
- J1939-75 support and CAN alarm ignore function.
- Alternator frequency & CAN speed sensing in one variant.
- Largest back-lit icon display in its class.
- Heated display option.
- Real time clock provides accurate event logging.
- Fully configurable via the fascia or PC using USB communication.
- Extremely efficient power save mode.
- 3 phase generator sensing.
- 3 phase mains (utility) sensing
- Compatible with 600 V ph to ph nominal systems.
- Generator/load power monitoring (kW, kVA, kVar, PF).
- Accumulated power monitoring (kWh, kVAh, kVarh).
- Generator overload protection.
- Generator/load current monitoring and protection.
- Fuel and start outputs (configurable when using CAN).
- 4 configurable DC outputs.
- 3 configurable analogue/digital inputs
- 4 configurable digital inputs.
- Configurable staged loading outputs.
- 3 engine maintenance alarms.
- Engine speed protection.
- Engine hours counter.
- Engine pre-heat.
- Engine run-time scheduler.
- Engine idle control for starting & stopping.
- Tier 4 engine instrumentation screens.
- Battery voltage monitoring.
- Start on low battery voltage.
- Configurable remote start input.
- 1 alternative configuration.
- Comprehensive warning, electrical trip or shutdown protection upon fault condition.
- LCD alarm indication.
- Event log (50)

# Options

| Engine | Alternator | Fuel System | Generating Set |
|---|---|---|---|
| □ Water Jacket Preheater<br>□ Oil Preheater<br>□ Oil manual pump | □ PMG excitation<br>□ Space heater<br>□ Winding temperature measuring | □ 12 / 24 hour base tank<br>□ Bunded fuel tank<br>□ External fuel tank<br>□ Automatic fuel feeding<br>□ Switch between external tank and base tank (three-way valve) | □ Deepsea, ComAp, Smartgen etc. controller<br>□ Trailer<br>□ Tools with the machine |

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