## MPMC BEY#ND ENERGY

## Model: MC100(S)-1

Powered by Cummins

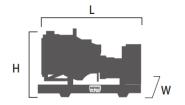


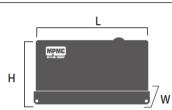


### **Applicable Standards**

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

General Information		Prime power	Standby power
Rated Power (kVA)		100	110
Power Rating (kW)		80	88
Frequency (Hz)		50	
Engine Model		6BT5.9-G2	
Engine Speed (RPM)		1500	
Phase		3	
PF		0.8	
Control System		Digital	
Rated voltage (V)		400/230 (According to customer requirements)	
Fuel tank capacity operating time		≥ 8h @ 75% load	
Fuel Consumption (L/h)	110% load	23.6	
	100% load	22.3	
	75% load	17	
	50% load	11.3	





Dimension and Weight					
Model	MC100-1 Open type	MC100S-1 Silent type			
Length (L) mm	2475	3200			
Width (W) mm	835	1130			
Height (H) mm	1470	1730			
Dry weight (kg)	1280	1806			
Tank capacity (L)	245	270			
The loading capacity (40'HC)	8 units	6 units			

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

### **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).









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## **Engine Specifications**

Emission Certification	6BT5.9-G2 (Cummins)	
Number of cylinders	6	
Cylinder arrangement	In-line	
Cycle	Four stroke	
Aspiration	Turbocharged	
Bore x Stroke	102 x 120 mm	
Displacement	5.9 L	
Compression ration	17.3: 1	
Prime power /speed	86 kW/1500 rpm	
Standby power /speed	92 kW/1500 rpm	
Speed governor	Electronic	
Cooling system	Forced Water Cooling Cycle	
Frequency droop	≤ 3%	
Total lubrication system capacity	16.4 L	
Coolant capacity (engine only)	7.9 L	
Fuel consumption 100% load	214 g/kWh @1500 rpm	
Starter motor	DC 24V	
Charge alternator	DC 24V	
Heavy duty diesel engine	<ul> <li>Starter battery (with lead acid) including rack and cables</li> </ul>	
Anti-vibration mount	<ul> <li>Flexible fuel connection hoses</li> </ul>	
Replaceable fuel filter, oil filter & air filter	<ul> <li>Exhaust silencer and bellows</li> </ul>	
Cooling radiator and fan	<ul> <li>Operation manuals and circuit diagram documents</li> </ul>	

## **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

## MPMC BEY#ND ENERGY

## **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

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- · 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
	<ul><li>PMG excitation</li><li>Space heater</li><li>Winding temperature measuring</li></ul>		<ul> <li>□ Deepsea, ComAp, Smartgen etc. controller</li> <li>□ Trailer</li> <li>□ Tools with the machine</li> </ul>





















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