## MPMC BEY#ND ENERGY

## Model: MP2000(S)-1

Powered by Perkins



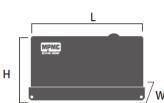


### **Applicable Standards**

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

General Information		Prime power	Standby power
Rated Power (kVA)		2000	2200
Power Rating (kW)		1600	1760
Frequency (Hz)		50	
Engine Model		4016-61TRG2	
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		1	
Fuel Consumption (L/h)	110% load	463	
	100% load	405	
	75% load	306	
	50% load	208	





Dimension and Weight					
Model	MP2000-1 Open type	MP2000S-1 Silent type			
Length (L) mm	5800	40' HC			
Width (W) mm	2200	40' HC			
Height (H) mm	2550	40' HC			
Dry weight (kg)	14200	1			
Tank capacity (L)	1	1			
The loading capacity (40'HC)	2 units	1			

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**

Engine model & manuf	facturer	4016-61TRG2 (Perkins)
Emission Certification		
Number of cylinders		16
Cylinder arrangement		60° V
Cycle		Four stroke
Aspiration		Turbocharged
Bore x Stroke		160 x 190 mm
Displacement		61.123 L
Compression ration		13:1
Prime power /speed		1774 kW/1500 rpm
Standby power /speed		1985 kW/1500 rpm
Speed governor		Electronic
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤ 3%
Total lubrication system capacity		213 L
Coolant capacity(engine or	nly)	95 L
Fuel consumption	100% load	197 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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