MPMC BEY#ND ENERGY

Model: MC450(S)-1

Powered by Cummins

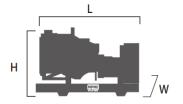


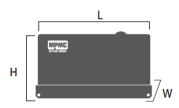


Applicable Standards

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

General Information		Prime power	Standby power
Rated Power (kVA)		450	495
Power Rating (kW)		360	396
Frequency (Hz)		50	
Engine Model		KTA19-G3	
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	106.7	
	100% load	97.0	
	75% load	72.7	
	50% load	51	





Dimension and Weight					
Model	MC450-1 Open type	MC450S-1 Silent type			
Length (L) mm	3672	4600			
Width (W) mm	1273	1822			
Height (H) mm	2101	2530			
Dry weight (kg)	4350	5600			
Tank capacity (L)	700	950			
The loading capacity (40'HC)	3 units	2 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

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 & manufacturer		KTA19-G3 (Cummins)	
Emission Certification			
Number of cylinders		6	
Cylinder arrangement		In-line	
Cycle		Four stroke	
Aspiration		Turbocharged	
Bore x Stroke		159 x 159 mm	
Displacement		18.9 L	
Compression ration		13.9: 1	
Prime power /speed		403 kW/1500 rpm	
Standby power /speed		448 kW/1500 rpm	
Speed governor		Electronic	
Cooling system		Forced Water Cooling Cycle	
Frequency droop		≤ 3%	
Total lubrication system capacity		50 L	
Coolant capacity (engine)		30 L	
Fuel consumption	100% load	205 g/kWh @1500 rpm	
Starter motor		DC 24V	
Charge alternator		DC 24V	
Heavy duty diesel engine		 Starter battery (with lead acid) including rack and cables 	
Anti-vibration mount		 Flexible fuel connection hoses 	
Replaceable fuel filter, oil filter & air filter		 Exhaust silencer and bellows 	
Cooling radiator and fan		 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
□ Oil Preheater	PMG excitationSpace heaterWinding temperature measuring	 12 / 24 hour base tank Bunded fuel tank External fuel tank Automatic fuel feeding Switch between external tank and base tank (three-way valve) 	 □ Deepsea, ComAp, Smartgen etc. controller □ Trailer □ Tools with the machine



















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