MPMC BEY#ND ENERGY

Model: MF120(S)-1

Powered by FPT

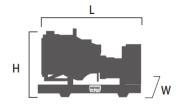


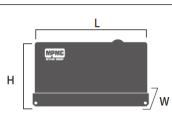


Applicable Standards

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

General Information		Prime power	Standby power
Rated Power (kVA)		120	132
Power Rating (kW)		96	106
Frequency (Hz)		50	
Engine Model		NEF45TM3	
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	30.4	
	100% load	27.6	
	75% load	21.6	
	50% load	14.	14.4





Dimension and Weight					
Model	MF120-1 Open type	MF120S-1 Silent type			
Length (L) mm	2350	2800			
Width (W) mm	750	1130			
Height (H) mm	1500	1580			
Dry weight (kg)	1250	1720			
Tank capacity (L)	180	280			
The loading capacity (40'HC)	15 units	8 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

Engine model & mar	nufacturer	NEF45TM3 (FPT)
Emission Certification		_
Number of cylinders		4
Cylinder arrangement		In-line
Cycle		Four stroke
Aspiration		Turbocharged
Bore x Stroke		104 x 132 mm
Displacement		4.5 L
Compression ration		17.5: 1
Prime power /speed		109 kW/1500 rpm
Standby power /speed		120 kW/1500 rpm
Speed governor		Mechanical
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤ 5%
Total lubrication system capacity		12.8 L
Coolant capacity (engine	e and radiator)	18.5 L
Fuel consumption	100% load	211 g/kWh @1500 rpm
Starter motor		DC 12V
Charge alternator		DC 14V
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
	 PMG excitation Space heater Winding temperature measuring 		 □ Deepsea, ComAp, Smartgen etc. controller □ Trailer □ Tools with the machine





















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