

**JULIO 2020**

# FICHA TÉCNICA

REVISIÓN N° 01 / N° PÁGINA 1 DE 1

## MODEL: MC80(S)-1


**APPLICABLE STANDARDS**

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

**FACTORY INSPECTION**

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

**ENVIRONMENTAL CONDITIONS**

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

**PAINTING PROCESS**

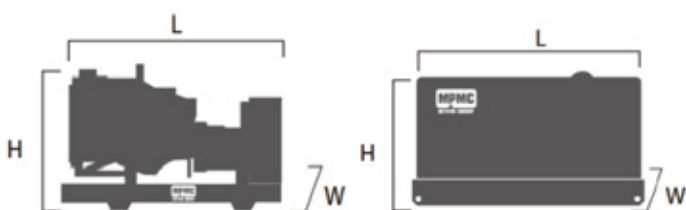
MPMC has the most advanced automatic spraying / powder coating production line, and is equipped with various sandblasting equipment to ensure higher quality.

Canopy painting: Henkel pretreatment process and world famous brand AkzoNobel powder.

Base Frame painting: Sandblasting process and AkzoNobel powder (Hempel paint is optional).

**GENERAL INFORMATION**

	PRIME POWER	STAND BY POWER
Rated Power (kVA)	80	90
Power Rating (kW)	64	72
Frequency (Hz)	50	
Engine Model	4BTA3.9-G11	
Engine Speed (RPM)	1500	
Phase	3	
PF	0.8	
Control System	Digital	
Rated voltage (V)	400/230	
	<small>(According to customer requirements)</small>	
Fuel tank capacity operating time	≥ 8h @ 75% load	
	110% load	20
Fuel Consumption (L/h)	100% load	17.6
	75% load	13.2
	50% load	9.1


**ENGINE SPECIFICATIONS**

ENGINE MODEL & MANUFACTURER	4BTA3.9-G11 (CUMMINS)
Emission Certification	—
Number of cylinders	4
Cylinder arrangement	In-line
Cycle	Four stroke
Aspiration	Turbocharged
Bore x Stroke	102 x 120 mm
Displacement	3.9 L
Compression ration	17.3:1
Prime power /speed	70 kW/1500 rpm
Standby power /speed	80 kW/1500 rpm
Speed governor	Electronic
Cooling system	Forced Water Cooling Cycle
Frequency droop	≤ 3%
Total lubrication system capacity	10.9 L
Coolant capacity (engine only)	8.3 L
Fuel consumption - 100% load	208 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



## DIMENSION AND WEIGHT

Model	Open type	Silent type
	MC80-1	MC80S-1
	Open type	Silent type
Length (L) mm	2200	2700
Width (W) mm	805	1080
Height (H) mm	1450	1610
Dry weight (kg)	1000	1530
Tank capacity (L)	180	160
The loading capacity (40'HC)	10 units	8 units

Note: Specifications and illustrations are subject to revision without notice

## ALTERNATOR SPECIFICATIONS

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

# CONTROL PANEL



## 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 Oil Preheater Oil manual pump	PMG excitation Space heater Winding 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