MPMC BEYOND ENERGY

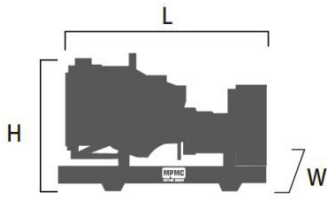
Model: M-20KW

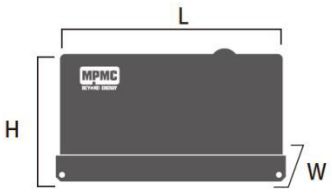
Powered by Perkins





General Information		Prime power	Standby power
Rated Power (kVA)		20	22
Power Rating (kW)		16	17.6
Frequency (Hz)		60	
Engine Model		404D-22G L	
Engine Speed (RPM)		1800	
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	6.1	
	100% load	5.3	
	75% load	4.0	
	50% load	2.9	





Dimension and Weight		
Model	MP20-1 Open type	MP20S-1 Silent type
Length (L) mm	1710	1830
Width (W) mm	650	770
Height (H) mm	1300	1336
Dry weight (kg)	550	911
Tank capacity (L)	90	52
The loading capacity (40'HC)	21 units	32 units

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

Applicable Standards

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

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).

- ATS: ATS-SIN-60-80-110

RETIE

ISO9001 : 2015 Quality system certified

ISO14001 System certification

OHSAS18001 System certification

CE certificate

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Engine Specifications

Engine model & manufacturer		404D-22G ESE (Perkins)
Emission Certification		Tier 4
Number of cylinders		4
Cylinder arrangement		In-line
Cycle		Four stroke
Aspiration		Naturally aspirated
Bore x Stroke		84 X 100 mm
Displacement		2.216 L
Compression ration		23.3 ： 1
Prime power /speed		20.7 kW/1800 rpm
Standby power /speed		24.6 kW/100 rpm
Speed governor		Mechanical
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤ 5%
Total lubrication system capacity		10.6 L
Coolant capacity (engine only)		3.6 L
Fuel consumption	100% load	237 g/kWh @1800 rpm
Starter motor		DC 12V
Charge alternator		DC 12V

- 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

Alternator Specifications

Alternator TAL-A40-G	
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 ± 0,5 %
Coupling	Flexible disc

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
□ 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

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