

TECHNICAL DATA

DIESEL GENERATING SET

MPMC POWERTECH CORP.

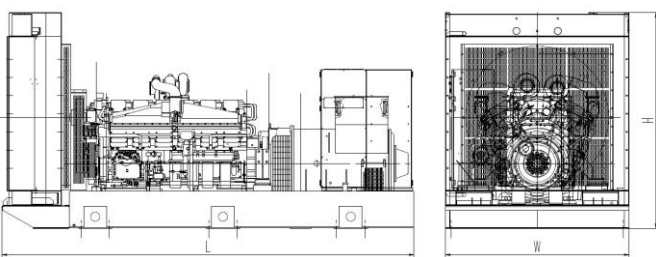
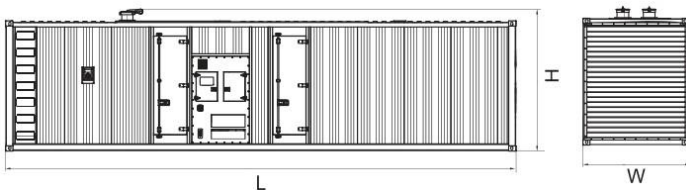
60HZ

MPS1200S-2/ MPS1200-2

Features

- Compact structure high-strength chassis
- Easy operation and maintenance, Low cost
- Good performance damping system
- Compliance with international electrical safety standards of electrical system
- High-performance maintenance-free batteries with isolation switch
- 50°C Radiator
- Top lifting, Forklift bottom hole design, easy to transport
- Industrial type muffler
- Noise reduction structure , Low overall noise
- Convenient power output interface and ATS Interface
- IP56 (control system)
- Customized design for user
- Structure optional: Open (MPS1200-2)
Sound-proof (MPS1200S-2)

Reference images, the actual shall prevail



Genset Technical Data

Output frequency	60 HZ
Rated speed	1800 rpm
Prime power	1091 KW
Standby power	1200 KW
Rated voltage	480 V
Phase	3
Noise dB(A) @7m	70
Engine model	4012-46TWG3A
Alternator model	LVI 634G
Fuel consumption of 100% load	291 Litres/h
Fuel consumption of 75% load	N.A. Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	≤±1%
Frequency regulation rate	≤±5%
Random frequency variation	≤±0.5%

Dimension and Weight

Generating set model	MPS1200S-2	MPS1200-2
Length(L) (mm)	40'HQ Container	4750
Width(W) (mm)	40'HQ Container	2080
Height(H) (mm)	40'HQ Container	2435
Dry weight (k g)	12900	9100
Tank capacity (L)	N.A.	N.A.

Engine Specifications	
Engine model	4012-46TWG3A
Engine manufacturer	PERKINS
Number of cylinders	12
Cylinder arrangement	60° Vee
Cycle	Four stroke
Aspiration	Turbocharged,air-water charge cooled
Bore Stroke (mm mm)	160 x 190
Displacement (Liter)	45.842
Compression Ratio	13.6:1
Prime power/speed	1149 KW / 1800rpm
Standby power/speed	1263 KW / 1800rpm
Speed governor	Electrical
Cooling system	Forced Water Cooling Cycle
Steady speed droop (%)	≤1%
Total lubrication system capacity (L)	177
Coolant capacity (L)	201
Fuel consumption at 100% load (g/kWh)	217(at 1800RPM)
Starter motor	DC 24V
Alternator	DC 24V

Alternator Specifications			
Alternator model	LVI 634G		
Rated output prime power	1210 kW		
Efficiency (%)	95.0%		
Rated speed	1800 RPM		
Rated frequency	60 Hz		
Phase	3		
Rated voltage	480 V		
Exciter type	excited by P.M.G., Brushless		
Power factor	0.8		
Voltage adjust range	≥5%		
Voltage regulation NL-FL	≤±1%		
Insulation grade	H		
Protection grade	IP23		
Xd DIR. AXIS SYNCHRONOUS	2.14		
X'd DIR. AXIS TRANSIENT	0.12		
X''d DIR. AXIS SUBTRANSIENT	0.08		
Xq QUAD. AXIS REACTANCE	1.77		
X''q QUAD. AXIS SUBTRANSIENT	0.20		
Optional			
Optional Alternator brand	Leroy Somer	MECC	MPMC
Optional Alternator model	LSA 50.2 M6	ECO43-2LN/4	LYG404G
Rated output prime power	1248KW	1248KW	1210KW

Control System

NSM-2000-7320

NSM-100-7320 is an advanced control module based on micro-processor, It is an Auto Mains (Utility) Failure Control Module(AMF), have been designed to start and stop generating sets that include electronic And non-electronic engines. Include the additional capability of being able to monitor a mains (utility) supply. when main is not available, It can automatically start the engine and close generating sets breaker automatically, Accurately measure various operational parameters and display all values and alarms information on the LCD. In additional, it can automatically open breaker, and shutdown the engine after the main supply recovers.

Main Features

- AMF and ATS and communication and expansion function
- Designed to work with electronic or non-electronic or gas engine simultaneously. (support many kinds of engines ECU).
- Manual, Automatic, Test and remote control mode selectable.
- Monitoring and measuring operational parameters of the mains supply and genset.
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections and multiple parameters display.
- Includes 12 inputs and eight outputs. 8 inputs are configurable and 4 outputs are configurable.
- Can be programmed using the front panel or by using the PC software.
- Support twelve languages. The language was edited by customer.
- Graded protection: pre-alarm, shutdown and electrical trip, flexible setting.
- The module can be pre-set for four operating modes and protecting parameters.
- Add DSE860 or DSE865 module, internet network monitoring can be realized.
- The firmware can be updated automatically, so customer can have the latest version.



The control module display

- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current
- Generator KVA, KW, PF
- Engine run-time Hours
- Engine oil pressure
- Engine coolant temperature
- Real time clock for time and date, overall runtime

Optional

Engine

- Water Jacket Preheater
- Fuel-water separator
- Oil pump
- Oil preheater
- Battery preheater

Alternator

- PMG excitation
- Space heater
- Winding Temperature Measuring

Generator Set

- Tools with the machine
- Coolant (-30°C)

Control System

- AMF function
- ATS control cabinet
- Double-frequency and double voltage
- Single phase
- ABB MCCB

Fuel System

- 12 / 24 hour base tank (single wall)
- Dual wall base fuel tank
- Outside fuel tank
- Automatic fuel feeding
- Fuel level indicate

Canopy

- Hired type
- Economy Oil heater
- Trailer

Contact Us

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ISO9001:2008
MPMC Generating Sets

