TECHNICAL DATA

DIESEL GENERATING SET

MPMC POWERTECH CORP.

50HZ

MP Series

MPS1350S-1 / MPS1350-1

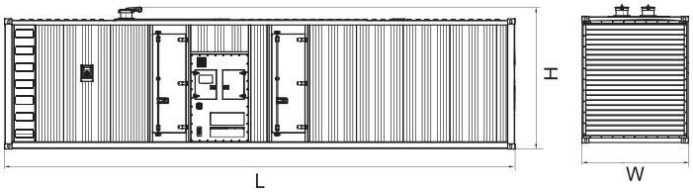
MP Series

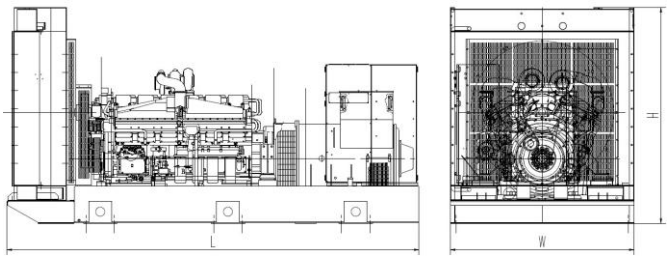
MPS1350S-1/ MPS1350-1

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℃ 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 (MPS1350-1)
  Sound-proof（MPS1350S-1)

Reference images, the actual shall prevail





Dimension and Weight		
Generating set model	MPS1350S-1	MPS1350-1
Length(L) (mm)	40’GP Container	4750
Width(W) (mm)	40’GP Container	2080
Height(H) (mm)	40’GP Container	2435
Dry weight (k g)	12900	9100
Tank capacity (L)	N.A.	N.A.

Genset Technical Data	
Output frequency	50 HZ
Rated speed	1500 rpm
Prime power	1350 KVA
Standby power	1485 KVA
Rated voltage	400 V
Phase	3
Noise dB(A) @7m	70
Engine model	4012-46TWG3A
Alternator model	PI 734B
Fuel consumption of 100% load	283 Litres/h
Fuel consumption of 75% load	213 Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	≤±1%
Frequency regulation rate	≤±5%
Random frequency variation	≤±0.5%

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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	1149KW / 1500rpm		
Standby power/speed	1263KW / 1500rpm		
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)	212(at 1500RPM)		
Starter motor	DC 24V		
Alternator	DC 24V		
Alternator Specifications			
Alternator model	PI 734B		
Rated output prime power	1400 kVA		
Efficiency (%)	94.9%		
Rated speed	1500 RPM		
Rated frequency	50 Hz		
Phase	3		
Rated voltage	400 V		
Exciter type	excitated 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	3.26		
X'd DIR. AXIS TRANSIENT	0.20		
X''d DIR. AXIS SUBTRANSIENT	0.15		
Xq QUAD. AXIS REACTANCE	2.10		
X''q QUAD. AXIS SUBTRANSIENT	0.29		
Optional			
Optional Alternator brand	Leroy Somer	MECC	MPMC
Optional Alternator model	LSA 50.2 L7	ECO43-2LN/4	LYG 454B
Rated output prime power	1350KVA	1300KVA	1400KVA

Control System

NA1-2000-7320

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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