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# TECHNICAL DATA

DIESEL GENERATING SET

MPMC POWERTECH CORP.

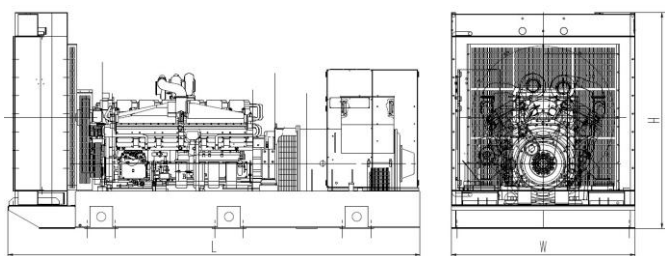
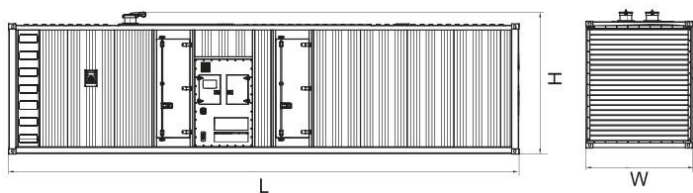
50HZ

## MCS1400S-1 / MCS1400-1

### Features

- Compact structure with high-strength chassis;
- Easy operation and maintenance, Low cost;
- Excellent 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 muffler;
- Noise reduction structure , Low noise;
- Convenient power output interface;
- IP56 (control system)
- Customized design for user
- Structure optional: Open (MCS1400-1)  
Sound-proof ( MCS1400S-1 )

The external reference images, the actual shall prevail



### Genset Technical Data

Output frequency	50 HZ
Rated speed	1500 rpm
Prime power	1400 KVA
Standby power	1650 KVA
Rated voltage	400 V
Phase	3
Noise dB(A) @1m	75
Engine model	KTA50-G8
Alternator model	PI 734B
Fuel consumption of 100% load	289 Litres/h
Fuel consumption of 75% load	222 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	MCS1400S-1	MCS1400-1
Length(L) (mm)	40' Container	5027
Width(W) (mm)	40' Container	2251
Height(H) (mm)	40' Container	2454

Engine Specifications	
Engine model	KTA50-G8
Engine manufacturer	Cummins
Number of cylinders	16
Cylinder arrangement	60° Vee
Cycle	Four stroke
Aspiration	turbo-charged & after-cooled
Bore Stroke (mm mm)	159 x 159
Displacement (Liter)	50.3
Compression Ratio	14.9:1
Prime power/speed (kW/RPM)	1200 / 1500rpm
Standby power/speed (kW/RPM)	1429 / 1500rpm
Speed governor	Electrical
Cooling system	Forced Water Cooling Cycle
Steady speed droop (%)	≤1%
Total lubrication system capacity (L)	204
Coolant capacity (L)	140
Fuel consumption at 100% load (g/kWh)	205(at 1500RPM)
Starter motor	DC24V
Alternator	DC24V

Alternator Specifications	
Rated frequency	50 Hz
Rated speed	1500 rpm
Alternator model	PI 734B
Rated output prime power	1400kVA
Efficiency (%)	94.9%
Phase	3
Rated voltage	400 V
Exciter type	Separated excited by P.M.G, Brushless
Power factor	0.8
Voltage adjust range	≥5.0%
Voltage regulation NL-FL	≤±1.0%
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 alte	MPMC
Optional Alternator model	LSA 50.2 L7	ECO46-1S/4	LYG 454B
Exciter type	Self-excited	Self-excited	excited by P.M.G
Rated output prime power	1350KVA	1500KVA	1400KVA

## Control System

### NA1-3200-7320

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
- 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

