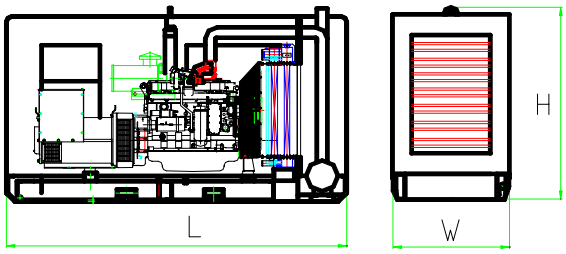
Diesel Generator Set: MPLS48S-2

General Features

- Every generator set is subjected to a comprehensive test program which includes 50% load, 75% load, 100% load, 110% load and the checking and proving of all control and safety shut-down functions.
- Equipped with battery charger and 12V high performance maintenance-free lead-acid starting batteries and connecting with cables.
- Equipped with industrial silencer and flexible exhaust hose.
- Equipped with 8-hours operation base tank;
- Equipped with CHINT MCCB circuit breaker;
- Designed to Comply with ISO8528/GB2820;
- Powered by Perkins engine and coupled with Leroy Somer alternator.

Benefits

- Function stability credibility, service convenience;
- Low operating cost results in optional economy;
- Gets the job done wherever you are;
- Ease of installation, operation and maintenance.



Dimension and Weight

Length(L)	mm	2600
Width(W)	mm	1030
Height(H)	mm	1500
Weight	kg	1380
Tank capacity	L	160

Environment Condition

Environment temperature	℃	≤50
Relative humidity	%	≤90
Altitude	m	≤1000

Genset Technical Data

Standby powe	48 kW
r Prime power	44 kW
Rated speed	1800 RPM
Output frequency	60 Hz
Phase	3
Rated voltage	480 V
Noise dB(A) @7m	70
Engine model	1103A-33TG1
Alternator model	LSA 43.2 S25
Fuel consumption of 100% load	12.9 Litres/h
Fuel consumption of 75% load	9.9 Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	≤±1%
Frequency regulation rate	≤±5%
Random frequency variation	≤±0.5%

Prime Power:

This rating is for the supply of continuous electrical power (at variable load). There is no limit on the annual hours of operation and 10% overload power can be supplied for 1 hour in 12.

Standby power:

This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted.

Rated voltage:

Available with customer requirements.

Engine Specifications

Engine model	1103A-33TG1
Engine manufacturer	Perkins
Emissions statement	---
Number of cylinders	3
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged
Bore×Stroke (mm×mm)	105 x 127
Displacement (Liter)	3.3
Compression Ratio	17.25:1
Prime power/speed (kW/RPM)	48.9/1800
Standby power/speed (kW/RPM)	53.9/1800
Speed governor	Mechanical
Cooling system	Forced Water Cooling Cycle
Total lubrication system capacity (L)	7.9
Coolant capacity （L）	10.2
Fuel consumption at 100% load (g/kWh)	215 (at 1800RPM)
Starter motor	DC12V
Alternator	AC12V

Alternator Specifications

Alternator model	LSA 43.2 S25
Alternator manufacturer	Leroy Somer
Exciter type	Single bearing, Brushless, Self-excited
Rated output continuous power	44 kW
Rated speed	1800 RPM
Rated frequency	60 Hz
Phase	3
Rated voltage	480 V(Available with customer requirements)
Power factor	0.8
Voltage adjust range	≥5%
Voltage regulation NL-FL	≤±1%
Insulation grade	H
Protection grade	IP23

Remark

Alternator option:

Other alternator manufacturer: Stamford, Lisite, Marathon and Mecc Alte.

Control System DSE3110

All MPMC series genset have a control cubicle (the deepsea controller DSE3110 as standard) mounted on a isolated support, which has the following features:

- Electronic digital control module with monitoring/control facility and warning indicators;
- Automatic shutdown protection
- Emergency stop button (lock-down type)
- AC output circuit breaker with over-current protection;
- DC circuit control switch.

The control module gives digital readouts of:

DSE3110

- Generator voltage;
- Output frequency;
- Engine speed;
- Battery voltage;
- Engine hours run.

Note:

1. The engine coolant temperature used temperature meter display;
2. The engine oil pressure used oil pressure meter display;
3. Generator current used current meter display and used change switch for each phase displayed separately

The control module has indicators for failure information:

- Overspeed/underspeed,
- Emergency stop
- Low oil pressure;
- High water temperature
- Failure to start
- Battery charger failure

Automatic shutdown occurs under:

- Low engine oil pressure;
- High engine water temperature;
- Overspeed/underspeed;
- Failure to start after three attempts.

The controller option:

MP170-HC

HGM6120

DSE7110

DSE7120

DSE7510

Remark: the controller detail information please refer to the file “Control System Choice”

Generator set

- ☐ Silence generator set
- ☐ Trailer generator set
- ☐ Single phase generator set
- ☐ ABB MCCB circuit breaker

Fuel system

- ☐ 12 hour base tank(single wall)
- ☐ 24 hour base tank(single wall)
- ☐ Dual wall base fuel tank
- ☐ Outside fuel tank

Exhaust system

- ☐ Residential exhaust silencer

Alternator

- ☐ PMG excitation
- ☐ Space heater

Low environment temperature

- ☐ Water heater
- ☐ Oil heater
- ☐ Battery heater

Control system

- ☐ AMF function
- ☐ ATS control cabinet
- ☐ Multiple generator automatic synchrorising

Contact Us

Millennium Power Manufacturing Corp.

No.111 Luda Rd. Luyuan Industrial Zone Pudong Shanghai 201322 China

Tel: +86 21 60970158 Fax: +86 21 60970155

Mobile: +86 13601728699(Mr.Du);

Email: sales@mpmc-china.com

www.mpmc-china.com

MPMC reserves the right to implement specifications or design changes without notice.

WARNING: Do not connect generator to any building's electrical system unless a disconnect switch has been installed.

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