

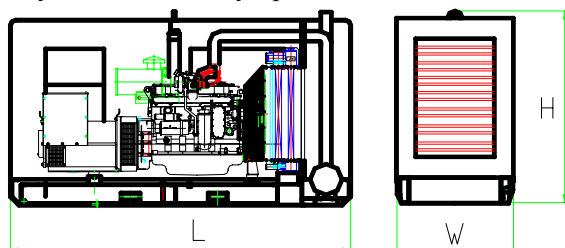
Diesel Generator Set MVME77S-2

General Features

- All qualified generator sets are subjected to a comprehensive performance test which includes 50% load, 75% load, 100% load, 110% load and to check, verify that all control systems, alarm and shut-down protection.
- Equipped with battery charger and 12V high performance maintenance-free lead-acid starting batteries and connecting cables.
- Equipped with industrial silencer and flexible exhaust hose.
- Equipped with 8-hours operation base fuel tank.
- Equipped with CHINT MCCB circuit breaker.
- Designed to Comply with ISO8528/GB2820.
- Powered by Volvo engine and coupled with MECC alternator.

Advantages

- Stability, reliability and easy-service
- Low operating and maintenance cost
- Widely used, location to meet customer needs
- Easy-installation, easy-operation and maintenance



Dimension and Weight

● Length (L)	mm	2800
● Width (W)	mm	1130
● Height (H)	mm	1700
● Weight	kg	1550
● Tank capacity	L	250

Environment Condition

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



Photos reference only

Genset Technical Data

Standby power	77 kW
Prime power	70 kW
Rated speed	1800 RPM
Output frequency	60 Hz
Phase	3
Rated voltage	480 V
Noise dB(A) @7m	70
Engine model	TD520GE
Alternator model	ECP34-1S/4
Fuel consumption of 100% load	19.7 Litres/h
Fuel consumption of 75% load	14.8 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	TD520GE
Engine manufacturer	Volvo
Number of cylinders	4
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged
Bore×Stroke (mm×mm)	108 x 130
Displacement (Liter)	4.76
Compression Ratio	17.5:1
Prime power/speed (kW/RPM)	82/1800
Standby power/speed (kW/RPM)	85/1800
Speed governor	Electrical
Cooling system	Forced Water Cooling Cycle
Steady speed droop (%)	≤1%
Total lubrication system capacity (L)	13
Coolant capacity (engine only) (L)	22
Fuel consumption at 100% load (g/kWh)	215 (at 1800RPM)
Starter motor	DC12V,
Alternator	AC12V

Alternator Specifications

Alternator model	ECP34-1S/4
Alternator manufacturer	MECC
Exciter type	Single bearing, Brushless, Self-excited
Rated output prime power	81.6kW
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

Alternator option: Leroy Somer, Stamford, Lisite Alte.

Alternator Brand	Alternator Model	Phase	Rated Speed	Rated Prime Power(kW)
Leroy Somer	LSA 44.2 VS3	3	1800RPM	92
Stamford	UCI 224G	3	1800RPM	82.4
Lisite	LYG 224F	3	1800RPM	82.4



Control System DSE3110

All MPMC gensets have a control cubicle (the Deepsea control module 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 display

- Generator voltage
- Output frequency
- Engine speed
- Battery voltage
- Engine run-time (Hours)



DSE3110

Note:

1. The engine coolant temperature displayed by water temperature gauge
2. The engine oil pressure displayed by oil pressure meter
3. Generator current displayed by current meter, to change switch for each phase displayed separately

The control module display for failure information

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

Automatic shutdown

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

The control modules option



DSE702



HGM6120



DSE7320



DSE8610

Remarks: For the specific and detailed features of the above types, please refer to “Control System Selection” file.



Generator Set Options and Accessories

Generator set

- ☐ Open 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 synchronising

Contact Us

Millennium Power Manufacturing Corp.

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

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

Mobile: +86-13651875398 (Mr. Du)

Email : sales@mpmc-china.com

Web site : www.mpmc-china.com

MPMC reserves the right to change the specifications and designs without notice.

WARNING:

Do not connect generator sets to any load and electrical equipments unless the circuit breaker in the disconnected condition.

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