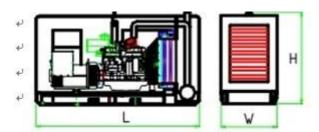


Diesel Generator Set EP-VM500 General Features

- ℜ 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 24V highPerformance 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 DELIXI circuit breaker.
- # Designed to Comply with ISO8528/GB2820.
- **#** Powered by Cummins engine and coupled with Stamford 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

H Length (L) H Width (W)	mm mm	4700 1700
Height (H)	mm	2230
Ж Weight Ж Tank capacity	kg L	5000 1000

Environment Condition

# Environment temperature	°C	≤50
# Relative humidity	%	≤90
# Altitude	m	≤1000



Photos reference only

Genset Technical Data

Prime power	500 kVA
Standby power	550 kVA
Rated speed	1500 RPM
Output frequency	50 Hz
Phase	3
Rated voltage	380 V
Noise dB(A) @7m	75
Engine model	D22A3
Alternator model	ZL354D
Fuel consumption of 100% load	109.4 Litres/h
Fuel consumption of 75% load	82.4 Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	<u>≤</u> ±1%
Frequency regulation rate	≤±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	D22A3
Engine manufacturer	Vman
Number of cylinders	12
Cylinder arrangement	V-Type
Cycle	Four stroke
Aspiration	Turbocharged & Intercooled
Bore×Stroke (mm×mm)	128 x 142
Displacement (Liter)	21.927
Compression Ratio	16.0:1
Prime power/speed (kW/RPM)	455/1500
Standby power/speed (kW/RPM)	505/1500
Speed governor	Electronic
Cooling system	Water-cooled
Steady speed droop (%)	<u>≤5%</u>
Total lubrication system capacity (L)	41-57
Coolant capacity (engine only) (L)	23
Fuel consumption at 100% load (g/kWh)	198 (at 1500rpm)
Starter motor	24 V
Alternator	24 V

Alternator Specifications

Alternator model	ZL354D
Alternator manufacturer	Elephant
Exciter type	Single bearing, Brushless, Self-excited
Rated output prime power	500kVA
Rated speed	1500 RPM
Rated frequency	50 Hz
Phase	3
Rated voltage	380 V(Available with customer requirements)
Power factor	0.8
Voltage adjust range	≥5%
Voltage regulation NL-FL	$\leq \pm 1\%$
Insulation grade	Н
Protection grade	IP23
Alternator option: Flenhant	Stamford

Alternator option: Elephant, Stamford



Control System DSE6120

All gensets have a control cubicle (the Deepsea control module DSE6120 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)

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







HGM6120





DSE7320

DSE8610



DSE6120

大象智能科技(福州)有限公司

ELEPHANT TECH FUZHOU CO.,LTD

Generator Set Options and Accessories

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
- $\hfill\square$ Water heater
- Oil heater
- □ Battery heater
- Control system
- $\hfill\square$ AMF function
- □ ATS control cabinet
- □ Multiple generator automatic synchrorising

Contact Us

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WARNING:

Do not connect generator sets to any load and

electrical equipments unless the circuit breaker in the disconnected condition.