DATA SHEET

The power for the better life

DIESEL GENERATOR SET
50Hz/1500 rpm

VGP275M 50Hz POWERED BY PERKINS SERIES

TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 400/230V-50Hz-3Phase

Model	VGP275M	
Power(ESP)	kVA/kw	275/220
Power(PRP)	kVA/kw	250/200
Starter Voltage	V	24
Rated Current	A	397
Rated rotation speed	r/min	1500
Power Factor		0.8
Fuel Consumption	Litre/hour	55.5
Fuel Tank Capacity	Litre	Open Type : 380L / Silent Type: 460L
Noise level	dB(A)@7m	Silent Type: 76±2

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	3000mm*1150mm*1800mm	1992Kg
Silent Type	3686mm*1256mm*2068mm	2649Kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: MECC ALTE, ECO38 1L4A

Diesel Engine: PERKINS , 1506A-E88TAG3

Standby Power: Continues running at variable load for duration of an emergency. No overload is permitted on these ratings.

Prime Power: Continues running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

CONFIGURATION:

Standard: Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).

Optional: Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting underframe tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.

Accessories: Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine.

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Website: http://www.vegapower.sg
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ENGINE Specification

Manufacturer： PERKINS

Model	1506A-E88TAG3
Engine speed Rated	1500 RPM
Cylinder /Arrangement	6/ L
Displacement	8.8L
Bore and Stroke	112 mm × 149 mm
Compression ratio	16.1: 1
Max. stand by power at rated RPM	243KW
Frequency regulation , steady state	≤0.5%
Governor : type	Electrical

Exhaust System

Exhaust gas flow	40.4L/min
Exhaust temperature	558°C
Max back pressure	10.0kPa

Fuel System

Fuel consumption100% (of the Prime Power)	55.5L / h
Fuel consumption75% (of the Prime Power)	41.6L / h
Fuel consumption50% (of the Prime Power)	28.9L / h
Fuel consumption25% (of the Prime Power)	

Oil system

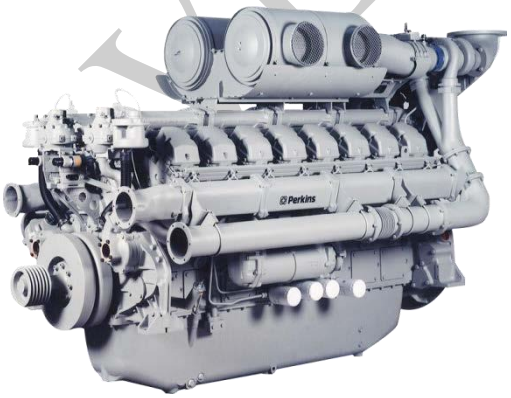
Total oil capacity w/filters	41L

Air intake

Engine air flow	14.1L/min

Coolant System

Radiator & engine capacity	29.6 L
Max water temperature	107°C
Thermostat	87-98°C



- Perkins engines with fast and reliable cold boost.
- Advanced technology on burning Combustion optimization, low fuel consumption and low noise, emission meets German TALuft standard.
- Reasonable coupling creates best compounding function, provides reliable and high-performance power products.
- Integrated structure of generator with fuel tank and base frame and internal high-efficiency anti-vibration.

Note: All data sheets are for reference only and subject to change without prior notice.

Perkins

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ALTERNATOR Specification

Manufacturer: MECC-ALTE

Type	ECO38 1L4A
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	AREP
Insulation : class , temperature rise	H / H
Degree of protection	IP23
AVR model	DSR
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

FEATURES

- Leading reality in the national scene, fortified by sixty years of experience in the electro mechanical field, Mecc Alte is today at its height in the world production of synchronous alternators.
- Committed daily to research, development and updating activities, Mecc Alte is a testimony to constant improvement in all areas from technology, organisation and quality with its ISO 9001 certification.

STANDARDS

- Marine certifying institutions
  Korean Register of Shipping, American Bureau of Shipping, China Classification Society, Germanischer Lloyd, Nippon Kaiji Kyokai, Russian Maritime Register of Shipping.
- Product certifying institutions
  CSA International
  Underwriters Laboratories
  Istituto Marchio di Qualità

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Control Panel

Model: DSE 7320

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

DIMENSIONS

OVERALL

240mm x 181mm x 42mm

(9.4” x 7.1” x 1.6”)

PANEL CUTOUT

220mm x 160mm

(8.7” x6.3”)

WEIGHT

400g (0.4kg)

KEY FEATURES

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- “Protections disabled” feature
- kW & kV Ar protection
- Reverse power (kW & kV Ar) protection
- LED and LCD alarm indication
- Power monitoring (kW h, kV Ar, kVA h, kV Ar h)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Unbalanced load protection
- Independent Earth Fault trip
- True dual mutual standby with load balancing timer (DSE7310 only)
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via
- DSE Configuration Suite PC software
- User selectable RS232 and RS485 communications
- Configurable Gencomm pages
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- Additional display screens to help with modem diagnostics
- Idle control for starting & stopping.
- DSENet® expansion compatible

KEY BENEFITS

- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Multiple date and time scheduler
- Set maintenance periods can be configured to maintain optimum engine performance
- Ethernet communications (via DSE860/865 modules), provides advanced remote monitoring at low cost
- Modules can be integrated into building management systems(BMS)
- Increased input and output expansion capability via DSENet®
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- PLC editor allows user configurable functions to meet specific application requirements.