

SPECTRO ELECTRICAL EQUIPMENT CO.





Generator Set Data Sheet

MPG500KVA

PK@50Hz 500KVA/400KW

Powered by **Perkins SOMER**



Main Features



DIESEL GENERATING



PERKINS 2506A-E15TAG2



400/230V 380/220V



3 phase 50 Hz



1500rpm



6CYLINDERS



62 LITRE



W

58 LITRE

Standby Power: 550 KVA - 440 KW

Open Skid

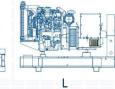
Length (L) Height (H) Width (W) Weight

Daily Tank

350 cm 215 cm 125 cm 3550 kg

415 L



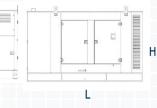


Prime Power: 500KVA - 400KW

Sound Proof

540 cm Length (L) Height (H) 245 cm Width (W) 155 cm Weight 5900 kg **Daily Tank**

740 L



Acoustic pressure level @3m

79 dBA

ENGINE: PERKINS 2506A-E15TAG2

Engine power output Cooling System

Displacement / Capacity

No. of cylinders

Cylinder Arrangement

Induction System

Bore and Stroke

Combustion System

Compression Ratio

Rotation

Frequency and Engine Speed

435 kWm-583 hp

Water Cooled 15.2 Liter

Vertical In line

Turbocharged and air to air charge cooled

137 x 171 mm

4 stroke

Direct Injection

16:1

Anti-clockwise, viewed on flywheel

50Hz & 1500rpm

Starting voltage Governor

24V Electronic

Oil capacity

62 Liter

Coolant capacity

58 Liter

24 V D.C. starter and charge alternator

Replaceable fuel filter, oil filter and dry element air filter

Cooling radiator and fan

Starter battery (maintenance free)

Fuel consumption at 100% load Fuel consumption at 75% load

53 L/hr.

Fuel consumption at 50% load

100 L/hr.

76 L/hr.

Cycle

😯 Aqaba Special Economic Zone Authority, Al-Herafeya-Ahmad Kharma Building, Jordan





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Powered by SPerkins Perkins



ALTERNATOR: LEROY SOMER

Rating 500KVA No. of bearing

Insulation class

Н

Wires

Model

Total Harmonic Content <3.5% on load **Excitation System**

SHUNT

TAL047C

Ingress Protection

IP23

AVR Model

R150

Winding Pitch

Over-speed

2/3(n° 6) 2250 mn⁻¹

Voltage Regulation

±1%

Circuit Breaker Capacity

MCCB 800Amps

STANDARD CANOPY

Sound Level

79 dBA @ 3 meters in free space

Design

Rigid canopy base manufactured by black steel metal sheets welded on canopy body with internal Re-

enforcement and bolted on the body.

4 service doors with stainless steel door locks.

Stainless steel heavy duty door hinges.

Black steel canopy body - 2mm and 3mm treated with greasing phosphate and anticorrosion treatment with

electro static power coating.

Connection

Flexible

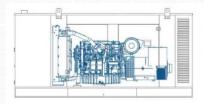
Sound isolation

Rockwool with perforated sheets

Muffler

Muffler with rain cap





CONTROL (MONITORING) SYSTEM: DEEP SEA

Control panel model

The DSE6010 is an Auto Start Control Module for single gen-set applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software.

Metering and Alarm indications

- Generator frequency
- Under-speed, Over-speed
- Generators volts (L-L, L-N)
- Generator current
- Engine Oil pressure
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage / frequency

- Engine coolant temperature
- Fuel level (warning or shutdown) Optional
- Hours run counter
- Battery volts
- Charge fail
- Low DC voltage
- CAN diagnostics and CAN fail/error

Gen-sets can be equipped with different control panels depending on usage, such as: DSE6020, DSE7310, DSE7320 or DSE8610 (Synchronization Panel)



(=) +962 6 569 5167



www.spectroplus.com







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OPTIONAL EQUIPMENTS

ATS (Automatic Transfer Switch) Water Jacket Heater **Battery Charger Fuel Water Separator Electrical Fuel Transfer Pump Battery Heater**

Alternator Anti-condensation Heater Load Bank **Electrical Fuel Level Sensor Fuel Level Protection Spare Parts** Oil Heater

STANDARD SPECIFICATIONS

Warranty	All generating sets are covered under warranty policy for a period of 12 months in line with the manufacturers' warranty policy		
Quality Standards	The equipment meets the following standards: BS4999, BS5514, IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528		
Engine Filtration System	Air filter, Fuel filter, Oil filter. All filters have replaceable elements		
Fuel System	On generating sets up to 650KVA, the base frame design is incorporated with an integral fuel tank with a capacity of approx 8 hours running at average load. The tank is supplied with fill cap breather, fuel feed and return pipes to the engine and drain plug	Mounting Arrangement	Base Frame: The complete generating set is mounted as a whole in a heavy duty fabricated steel base frame. Coupling: The engine and alternator are directly coupled by means of an SAE flange. The engine flywheel is flexibly coupled
Cooling Radiator	Radiator and cooling fan, complete with safety guards designed to cool the engines at high ambient temperatures		to the alternator rotor Anti-Vibration Mounting Pads: Anti-vibration pads are affixed between the engine/ alternator feet and the base frame thus ensuring
Exhaust System	Heavy duty industrial exhaust silencer Silencer noise reduction level: 22 (dB) Maximum allowable back pressure: 10 (kPa)		complete vibration isolation of the rotating assembly Safety Guards: The fan & fan drive along with the battery charging alternator are safety guard protected for personnel protection
Documentation	Operation & Maintenance manual, circuit wiring diagrams and commissioning / fault finding instruction leaflets are accompanied with the generator	Factory Tests:	The generating set is load tested before dispatch. All protective devices control functions and site load conditions are simulated. The generator and its systems are checked before dispatch
		Equipment Finishing:	All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability









