



OVERSEAS TRADING SERVICES
O.T.S.



Generator Set Data Sheet

MPG1000KVA PK@50Hz 1000KVA/800KW Powered by **Perkins** **LEROY SOMER**

Main Features



DIESEL GENERATING SET



PERKINS 4008-TAG2A



400/230V, 380/220V



3 phase 50 Hz



1500rpm



8CYLINDERS



153 LITRE



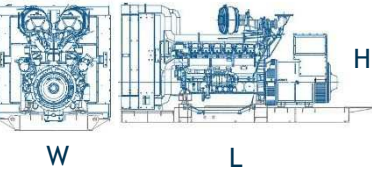
149 LITRE

Standby Power: 1100 KVA - 880 KW

Prime Power: 1000KVA - 800KW

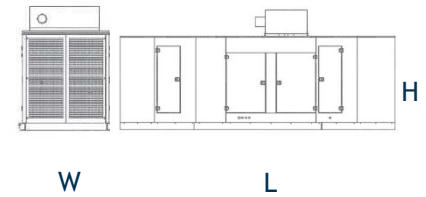
Open Skid

Length (L) 475 cm
Height (H) 205 cm
Width (W) 225 cm
Weight 7550 kg
Daily Tank N/A



Sound Proof

Length (L) 1000 cm
Height (H) 350 cm
Width (W) 270 cm
Weight 16000 kg
Daily Tank N/A



Acoustic pressure level @3m

68dBA

ENGINE: PERKINS 4008-TAG2A

Engine power output	861 kWm-1155 hp
Cooling System	Water Cooled
Displacement / Capacity	30.561 Liter
No. of cylinders	8
Cylinder Arrangement	Vertical in Line
Induction System	Turbocharged and air to air charge cooled
Bore and Stroke	160 x 190 mm
Cycle	4 stroke
Combustion System	Direct Injection
Compression Ratio	13.6:1
Rotation	Anti-clockwise, viewed from flywheel end
Frequency and Engine Speed	50Hz & 1500rpm

Starting voltage	24V
Governor	Electronic
Oil capacity	153 Liter
Coolant capacity	149 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	215 L/hr.
Fuel consumption at 75% load	162 L/hr.
Fuel consumption at 50% load	111 L/hr.

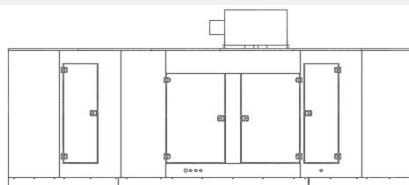
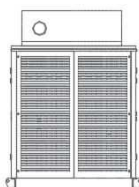


ALTERNATOR: LEROY SOMER

Rating	1000KVA	Model	TAL049E
No. of bearing	1	Insulation class	H
Total Harmonic Content	<5%	Wires	6
Ingress Protection	IP23	Excitation System	SHUNT
Winding Pitch	2/3(n° 6S)	AVR Model	R150
Over-speed	2250 mn ¹	Voltage Regulation	±1%
Circuit Breaker Capacity	MCCB 1600Amps		

STANDARD CANOPY

Sound Level	68 dBA @ 3 meters in free space
Design	Rigid canopy base manufactured by black steel metal sheets welded on canopy body with internal Reinforcement and bolted on the body. 8 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	10 cm Rockwool with perforated sheets
Muffler	Muffler with rain cap



CONTROL (MONITORING) SYSTEM: DEEP SEA

Control panel model DSE 8610
The DSE8610 is synchronizing module. 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	Engine coolant temperature
	Under-speed, Over-speed	Fuel level (warning or shutdown) – Optional
	Generators volts (L-L, L-N)	Hours run counter
	Generator current	Battery volts
	Engine Oil pressure	Charge fail
	Fail to start/ stop	Low DC voltage
	Emergency stop	CAN diagnostics and CAN fail/ error
	Failed to reach loading voltage / frequency	

Gen-sets can be equipped with different control panels depending on usage, such as: DSE6020, DSE7310, DSE6010 or DSE8610 (Synchronization Panel)



OPTIONAL EQUIPMENTS

ATS (Automatic Transfer Switch)	Alternator Anti-condensation Heater
Water Jacket Heater	Load Bank
Battery Charger	Electrical Fuel Level Sensor
Fuel Water Separator	Fuel Level Protection
Electrical Fuel Transfer Pump	Spare Parts
Battery Heater	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	Mounting Arrangement	<p>Base Frame: The complete generating set is mounted as a whole in a heavy duty fabricated steel base frame.</p> <p>Coupling: The engine and alternator are directly coupled by means of an SAE flange. The engine flywheel is flexibly coupled to the alternator rotor</p> <p>Anti-Vibration Mounting Pads: Anti-vibration pads are affixed between the engine/ alternator feet and the base frame thus ensuring complete vibration isolation of the rotating assembly</p> <p>Safety Guards: The fan & fan drive along with the battery charging alternator are safety guard protected for personnel protection</p>
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		
Cooling Radiator	Radiator and cooling fan, complete with safety guards, designed to cool the engines at high ambient temperatures	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
Exhaust System	Heavy duty industrial exhaust silencer Silencer noise reduction level: 22 (dB) Maximum allowable back pressure: 10 (kPa)		Equipment Finishing:
Documentation	Operation & Maintenance manual, circuit wiring diagrams and commissioning / fault finding instruction leaflets are accompanied with the generator		

Assembled in facilities certified to ISO 9001