





Generator Set Data Sheet

MPG100KVA

PK@50Hz100KVA/80KW



Main Features





PERKINS 1104C-44TAG2



400/230V, 380/220V



3 Phase 50 Hz





4CYLINDERS

Standby Power: 110 KVA - 88 KW



8 LITRE

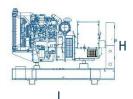


12.6 LTRE

Open Skid

Length (L) 210 cm Height (H) 140 cm Width (W) 76 cm Weight 1100 kg **Daily Tank** 150 L

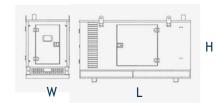




Prime Power: 100KVA - 80 KW

Sound Proof

275 cm Length (L) Height (H) 142 cm Width (W) 110 cm Weight 1920 kg **Daily Tank** 205 L



Acoustic pressure level @3m

75 dBA

ENGINE: PERKINS 1104C-44TAG2

Engine power output 90 kWm-120 hp **Cooling System** Water Cooled Displacement / Capacity 4.41 Liter No. of cylinders

Vertical In line **Cylinder Arrangement**

Induction System Turbocharged, air to air

Bore and Stroke 105 x 127 mm Cycle 4 stroke **Combustion System** Direct Injection

Compression Ratio 18.2:1

Rotation Anti-clockwise, viewed on flywheel

Frequency and Engine Speed 50Hz & 1500rpm Starting voltage 12V Governor

Electronic Oil capacity 8 Liter **Coolant capacity** 12.6 Liter 12 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 22.6 L/hr. Fuel consumption at 75% load 17.1 L/hr. Fuel consumption at 50% load 11.2 L/hr.



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Powered by Serkins Perkins



ALTERNATOR: LEROY SOMER

Rating	100KVA	Model	TALO44D
No. of bearing	1	Insulation class	Н
		Wires	6
Total Harmonic Content	At no load<3.5% -no load<5%	Excitation System	SHUNT
Ingress Protection	IP23	AVR Model	R120
Winding Pitch	2/3(n° 3)		
Over-speed	2250 mn ⁻¹	Voltage Regulation	±1%
Circuit Breaker Capacity	MCCB 160Amps		

STANDARD CANOPY

75 dBA @ 3 meters in free space Sound Level

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

enforcement and bolted on the body.

3 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

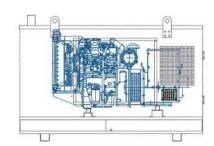
electro static power coating.

Connection Flexible

Rockwool with perforated sheets Sound isolation

Muffler with rain cap Muffler





CONTROL (MONITORING) SYSTEM: DEEP SEA

Control panel model

DSE6010

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
- 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)



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OPTIONAL EQUIPMENTS

ATS (Automatic Transfer Switch) **Alternator Anti-condensation Heater**

Water Jacket Heater Load Bank

Electrical Fuel Level Sensor Battery Charger

Fuel Level Protection Fuel Water Separator

Electrical Fuel Transfer Pump Spare Parts Battery Heater Oil Heater

STANDARD SPECIFICATIONS

Engine Filtration System Air filt replace Fuel System On ge design with a avera breat	filter, Fuel filter, Oil filter. All filters have blaceable elements generating sets up to 650KVA, the base frame sign is incorporated with an integral fuel tank that capacity of approx 8 hours running at erage load. The tank is supplied with fill capeather, fuel feed and return pipes to the engine	999, BS5514, IEC 60034, VDEOS Mounting Arrangement	Base Frame: The complete generating set is mounted as a whole in a
replace replac	placeable elements generating sets up to 650KVA, the base frame sign is incorporated with an integral fuel tank th a capacity of approx 8 hours running at erage load. The tank is supplied with fill cap	Mounting Arrangement	2400 1 4 1101
design with a avera breat	sign is incorporated with an integral fuel tank th a capacity of approx 8 hours running at erage load. The tank is supplied with fill cap	Mounting Arrangement	2400 1 4
design temper Exhaust System Heavy Silence	diator and cooling fan, complete with safety guards, signed to cool the engines at high ambient inperatures avy duty industrial exhaust silencer incer noise reduction level: 22 (dB) imum allowable back pressure: 10 (kPa)		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 to the alternator rotor 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 Safety Guards: The fan & fan drive along with the battery charging alternator are safety guard protected for personnel
diagra	eration & Maintenance manual, circuit wiring grams and commissioning / fault finding instruction flets are accompanied with the generator	Factory Tests: Equipment Finishing:	protection 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 All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability