



Generator Set Data Sheet

MPG30KVA

PK@50Hz30KVA/24KW

Powered by



Main Features



DIESEL GENERATING SET



PERKINS
1103A-33G



400/230V,
380/220V



3 phase
50 Hz



1500rpm



3CYLINDERS



8.3 LITRE



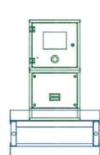
10.2 LITRE

Standby Power: 33 KVA - 26.4 KW

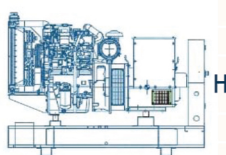
Prime Power: 30KVA - 24 KW

Open Skid

Length (L)	180 cm
Height (H)	130 cm
Width (W)	70 cm
Weight	750 kg
Daily Tank	110 L



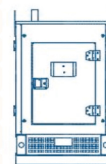
W



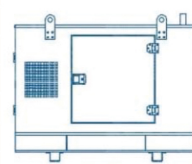
L

Sound Proof

Length (L)	225 cm
Height (H)	132 cm
Width (W)	110 cm
Weight	1400 kg
Daily Tank	120 L



W



L

H

Acoustic pressure level @3m

75 dBA

ENGINE: PERKINS 1103A-33G

Engine power output	28 kWm-37hp
Cooling System	Water Cooled
Displacement / Capacity	3.3 Liter
No. of cylinders	3
Cylinder Arrangement	Vertical In line
Induction System	Naturally Aspirated
Bore and Stroke	105 x 127 mm
Cycle	4 stroke
Combustion System	Direct Injection
Compression Ratio	19.25:1 nominal
Rotation	Anti-clockwise, (viewed on flywheel)
Frequency and Engine Speed	50Hz & 1500rpm

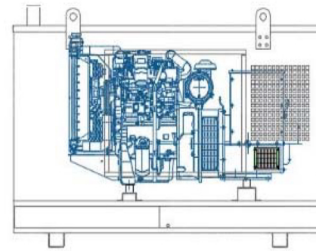
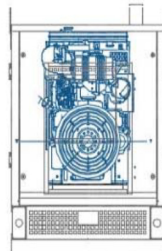
Starting voltage	12V
Governor	Mechanical
Oil capacity	8.3 Liter
Coolant capacity	10.2 Liter
12 V D.C. starter and charge alternator	
Replaceable fuel filter, oil filter and dry element air filter	
Cooling radiator and fan	
Starter battery (maintenance free)	
Fuel consumption at 100% load	7.2 L/hr.
Fuel consumption at 75% load	5.61 L/hr.
Fuel consumption at 50% load	4.06 L/hr.

ALTERNATOR: LEROY SOMER

Rating	30KVA	Model	TAL042C
No. of bearing	1	Insulation class	H
		Wires	6
Total Harmonic Content	At no load<2% -no load<5%	Excitation System	SHUNT
Ingress Protection	IP23	AVR Model	R120
Winding Pitch	2/3(Wdg 3)		
Over-speed	2250 mn ⁻¹	Voltage Regulation	±1%
Circuit Breaker Capacity	MCB 50Amps		

STANDARD CANOPY

Sound Level	75 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. 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
Sound isolation	Rockwool with perforated sheets
Muffler	Muffler with rain cap



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	<ul style="list-style-type: none"> 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)

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 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 protection

Cooling Radiator Radiator and cooling fan, complete with safety guards, designed to cool the engines at high ambient temperatures

Exhaust System Heavy duty industrial exhaust silencer
Silencer noise reduction level: 22 (dB)
Maximum allowable back pressure: 10 (kPa)

Documentation Operation & Maintenance manual, circuit wiring diagrams and commissioning / fault finding instruction leaflets are accompanied with the generator

Factory Tests:

Equipment Finishing:

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