



 **Perkins**



Image for illustrative Purposes only.

GENERATING SET MODEL (RMS-P1250)

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	1250 KVA	1375 KVA
	1000 KW	1100 KW

ALTERNATOR DATA

Make	Stamford
Model	PI734A
No. of bearings	1
Insulation class	H
Total Harmonic Content	<3.5%
Wires	6
Ingress Protection	IP23
Excitation System	AREP
Winding Pitch	2/3 (n° 6S)
AVR Model	R450
Overspeed	2250 mn ⁻¹
Voltage Regulation (steady)	± 0.5%
Short Circuit Capacity	300% (3 In):10s

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make	Perkins	
Engine Model	4012 - 46TWG2A	
Governing Type	Electronic	
Number of Cylinders	12	
Cylinder Arrangement	60° Vee form	
Bore and Stroke mm	160 x 190	
Displacement / Cubic Capacity litres	45.842	
Induction System	Turbocharged and air to water charge cooled	
Cycle	4 stroke	
Combustion System	Direct Injection	
Compression Ratio	13.6:1	
Rotation	Anti-clockwise, viewed from flywheel end	
Cooling System	Water - cooled	
Frequency and Engine Speed	50Hz & 1500rpm	
	Prime	Standby
Gross Engine Power kW (hp)	1113 (1492)	1224 (1641)
Fuel Consumption @ 50% load L/hr	143	-
@ 75% load L/hr	196	-
@ 100% load L/hr	259	288
Total Lubrication System Capacity litres	177	177
Total Coolant Capacity litres	201	201
Boost Pressure Ratio	2.87	3.10
Exhaust Temperature: °C	422	422
Radiator Cooling Air Flow (Min): m³/sec	28	28
Combustion Air Flow: m³/min	103	109
Exhaust Gas Flow: m³/min	235	235
Fuel Tank Capacity: litres	N/A	N/A

CONTROL PANEL

Make	Deep Sea
Model	7120

The DSE7120 is an Auto Start Control Module for single genset 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
- Underspeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Fuel level (Warning or shutdown) - Optional
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Loss of magnetic pick-up signal - Optional
- Low DC voltage
- CAN diagnostics and CAN fail/error

1. ENGINE

Pe:kins four stroke heavy duty high performance industrial type diesel engine.

2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
 - Two Cartridge type fuel filters.
 - Full flow lube oil filter.
- All filters have replaceable elements.

3. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)

4. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level	10 (dB)
Maximum allowable back pressure	5.0 (kPa)

5. CIRCUIT BREAKRT TYPE

ABB 3 pole MCCB. (4 pole is optional)

6. FUEL SYSTEM

The baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

7.ALTERNATOR

7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- Heavy coat of antitracking varnish additional protection against moisture or condensation.

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at $\pm 0.5\%$. Nominal adjustment by means of a trim pot incorporated on the AVR.

7.3 MOTOR STARTING

An overload capacity equivalent to 300% of the Full Load impedance at zero Power Factor can be sustained for 10 seconds, when AREP or PMG option is fitted.

8. MOUNTING ARRANGEMENT

8.1 BASE FRAME

The complete Generating Set is mounted as a whole on a heavy duty fabricated steel Baseframe.

8.2 COUPLING

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

8.3 ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

8.4 SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

9. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

11. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets are accompanied with the Generator.

12. QUALITY STANDARDS

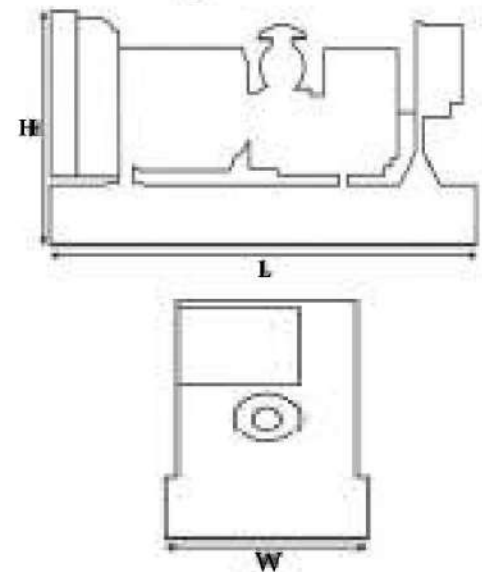
The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

13. WARRANTY

All of the Generating Sets are covered under a warranty policy for a period of 12 months. Warranty of the equipment is in line with manufacturers warranty terms & conditions.

(check warranty statement for more details, as it may vary for different countries)

In line with continuous product development, we reserve the right to change specifications without notice.



STANDARD REFERENCE CONDITIONS

Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

DIMENSIONS AND WEIGHT

Length cm	Width cm	Height cm	Weight* kg (wet)
500	180	250	9250



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Dealer contact details



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