

# 80 KVA

### 3 PHASE

50 Hz



**92 KVA**

### 3 PHASE

## 60 Hz

## GENERATING SET MODEL ( UPS P 80 )

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	80 KVA	88 KVA
	64 KW	70 KW
380-415 V, 3 ph, 60 Hz, 1800 rpm	92 KVA	102KVA
	73.8 KW	81.7 KW

## ENGINE / TECHNICAL DATA

### Ratings at 0.8 Power Factor

<b>Engine Make</b>	Perkins	
<b>Engine Model</b>	H04A-44TG2	
<b>Governing Type</b>	Mechanical	
<b>Number of Cylinders</b>	4	
<b>Cylinder Arrangement</b>	Vertical in line	
<b>Bore and Stroke mm</b>	105 x 127	
<b>Displacement / Cubic Capacity litres</b>	4.4	
<b>Induction System</b>	Turbocharged	
<b>Cycle</b>	4 stroke	
<b>Combustion System</b>	Direct Injection	
<b>Compression Ratio</b>	17.25:1	
<b>Rotation</b>	Anti-clockwise, viewed from flywheel	
<b>Cooling System</b>	Water - cooled	
<b>Frequency and Engine Speed</b>	<b>50Hz &amp; 1500rpm</b>	<b>60 Hz &amp; 1800rpm</b>
<b>Gross Engine Power kW (hp)</b>	73.4 (98.4)	80.7 (108.2)
<b>Fuel Consumption @ 50% load L/hr</b>	11.3	13.5
<b>@ 75% load L/hr</b>	16.9	18.7
<b>@ 100% load L/hr</b>	20.6	23.7
<b>Total Lubrication System Capacity litres</b>	8	8
<b>Total Coolant Capacity (inc. radiator) litres</b>	13.0	13.0
<b>Exhaust Temperature: °C</b>	580	580

## ALTERNATOR DATA

Make	UPS / LEROY SOMER
Model	UPS224G/ LSA(TAL)044B
No. of bearings	1
Insulation class	H
Wires	6 /12
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3

<b>Overspeed</b>	2250 $\text{mm}^{-1}$
<b>Voltage Regulation</b> (steady)	$\pm 1\%$

## CONTROL PANEL

Make	Deep Sea
Model	4000 SERIES

The **DSE 4000 Series** 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
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Low DC voltage
- CAN diagnostics and CAN fail/error

Image for illustrative purposes only



**80 KVA****3 PHASE****50Hz****STANDARD SPECIFICATIONS****92KVA****3 PHASE****60 Hz****1. ENGINE**

Perkins 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**

Exhaust gas flow	13.3 m <sup>3</sup> /min
Maximum allowable back pressure	10.0 (kPa)

**5. CIRCUIT BREAKER TYPE**

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  $\pm 1\%$ . Nominal adjustment by means of a trim pot incorporated on the AVR.

**8. MOUNTING ARRANGEMENT****8.1 COUPLING**

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

**8.2 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.

**8.3 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**

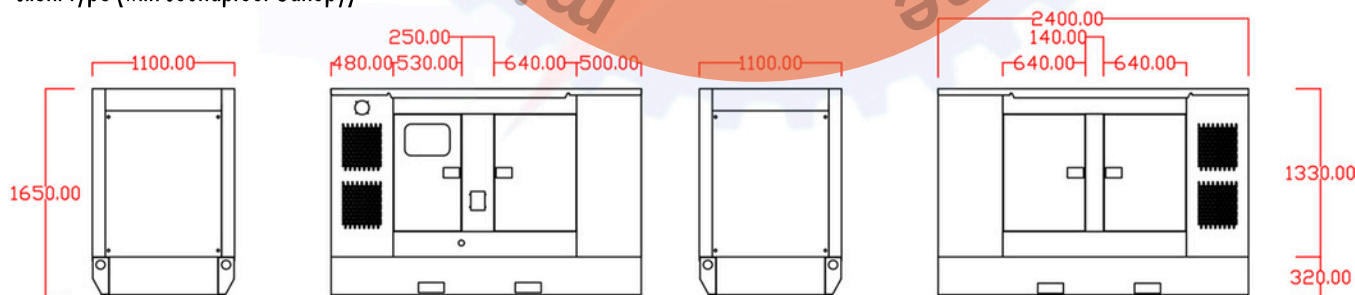
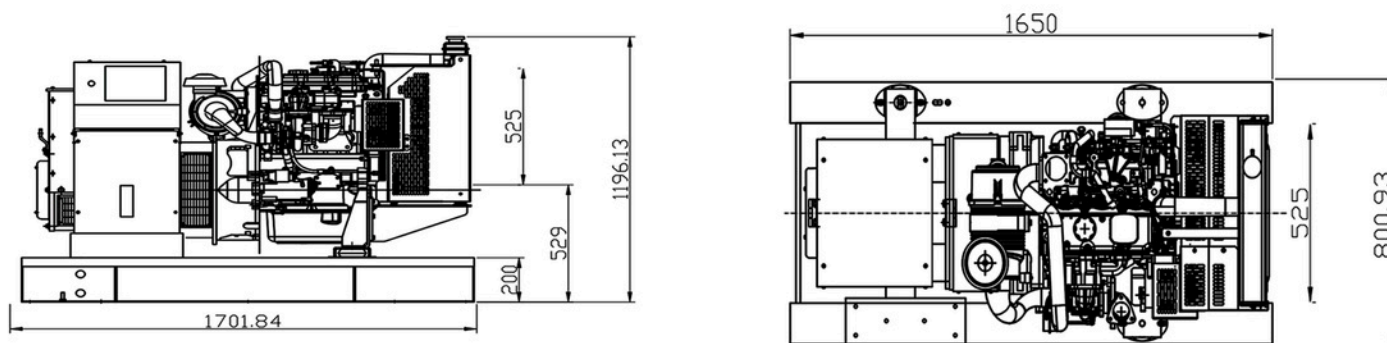
The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

**13. WARRANTY**

All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours. 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 GENERATOR DIMENSION AND WEIGHT****Silent Type (with Soundproof Canopy)****Open Type (without Soundproof Canopy)**

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