



INNOVATIVE POWER SOLUTIONS

## GENERATOR MODEL P80

<b>Frequency/ Speed - Voltage</b>	50HZ/1500 RPM-230/400V	
<b>Prime Power</b>	80 KVA	64 KW
<b>Standby Power</b>	88 KVA	70.4 KW



Image For illustration purposes only.

## Features

### Engine

Perkins, 1104A-44TG2, Made in UK, in accordance to ISO3046, ISO8528, DIN6271

### Alternator

Leroy Somer-France / Meccalte-Uk Complying to the following norms:CEE/CEI2-3/ EN60034-1/ IEC34-1/ VDE/ BS/CAN/ CSA

### Control Panel

Deep Sea, DSE-6020, Made In UK, complying to the norms: comply to the norms BS EN 61000, BS EN 60950, BS EN 60068

### Base Frame

Black steel with Anti-vibration pads, Built in fuel tank

### Sound Proof Canopy

Modular SPC, Powder Coated, Extremely Durable, Designed to Reduce Sound Level with Maximum Service Accessibility and Minimum Foot Prints

### Countrywide Support

Enpower Products are distributed through its dealer Network For more information you may Contact us.

## Definition

### Standby Power

**Standby Power:** Continuous running at variable load for duration of an emergency. No overload is permitted on this ratings.

### Prime Power

**Prime Power:** Continuous running at variable load for unlimited periods with 10 % overload 1 hour in any 12 hours Period.

Due to continuous product development, we reserve the right to change specifications at any time without prior notice.

# PERKINS ENGINE TECHNICAL DATA

Model: 1104A-44TG2



## STRUCTURE

<b>Number of Cylinders</b>	4
<b>Engine Build</b>	In line
<b>Bore</b>	105 mm
<b>Stroke</b>	127 mm
<b>Displacement</b>	4.4 L
<b>Compression Ratio</b>	17.25:1
<b>Aspiration</b>	Turbocharged
<b>Cooling</b>	Water Cooled



## FUEL

	1500 RPM	1800 RPM
<b>Fuel Tank</b>	Built in fuel tank for atleast 10 hours operation @ full load	Built in fuel tank for atleast 10 hours operation @ full load
Fuel System Fuel Recommended	Direct injection N°2 Diesel	
	1500 RMP	1800 RPM
Delivery Flow Rate (l/hr)		
<b>Fuel Consumption</b>		
100% Load (g/kWh-L/hr)	18.7	TBA
75% Load (g/kWh-L/hr)	14	TBA
50% Load (g/kWh-L/hr)	9.7	TBA



## COOLING SYSTEM

<b>Engine Coolant Capacity</b>	13 L
<b>Air Flow-Radiator</b>	1483.3 l/s
Radiator with 50 degree Cooling Package & Air Cleaner	
Thermostatically-controlled	



## AIR INLET

<b>Air Intake Engine (Clean Filter/Dirty)</b>	5/8 KPa
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## EXHAUST SYSTEM

<b>Exhaust Gas Temperature</b>	555°C
<b>Exhaust Gas Flow (Prime)</b>	208.3 l/s
<b>Maximum Exhaust System Back Pressure</b>	10 kPa
Stainless Steel exhaust flex-	



### DC SYSTEM STARTING/CHARGING

**Cranking Battery Voltage** 12 V

**Battery Charging Alternator** 65 A

Dc Voltage Monitoring via



### Heat Rejection(prime)

**Radiated Heat to Ambient** 13 KW TBA

**Heat Rejection to Coolant** 46 KW TBA

**Heat Rejection to Exhaust** 53 KW TBA

**Heat Rejection to intercooler** 0 TBA



### LUBE SYSTEM

8 L Lubricating System Oil Capacity



### GOVERNOR

Electronic

## ALTERNATOR TECHNICAL DATA



**Insulation System** Class H

**Winding Pitch** 2/3 to minimize harmonics effects

**Number of Poles** 4

**Number of Bearings** Single bearing

**RPM** 1500 RPM

**Power Factor** 0.8

**Regulation** ± 1%

**Frequency** 50 Hz

**Voltage Range** 380-415 / 220-240

**IP Rating (Protection)** Ip23

Synchronous, 3 phase, Brushless & Self Excited



### STRUCTURE

# CONTROL MODULE

## Deep Sea Model: DSE 6020



### INDICATIONS

- ✔ Operating Hours
- ✔ 3 Phase Generator Voltage Sensing & Monitoring
- ✔ Current Protection & Monitoring
- ✔ Power Measurement (kW, kVA, kVA<sub>r</sub>, kWh, kVAh, kVA<sub>r</sub>h, pf)
- ✔ Frequency Monitoring (Hz)
- ✔ Oil Pressure/Coolant Temperature
- ✔ Battery Voltage Monitoring (DC)
- ✔ Alarm Acknowledge



### CONTROL

- ✔ Engine Cool Down Timer
- ✔ Emergency Stop Push button/ Alarm Acknowledge
- ✔ Warm-up Timer
- ✔ Load Switching Timer
- ✔ Engine Cycle Crank



### WARNING & SHUTDOWN ALARMS

- ✔ Generator Over/Under Voltage & Frequency
- ✔ Crank Disconnect (Failure to Start)
- ✔ Under/Over Speed
- ✔ Over Current
- ✔ Low Oil Pressure
- ✔ High Water Temperature
- ✔ Low Fuel Level
- ✔ Low Water Level



### FEATURES

- ✔ User Friendly
- ✔ Compatible With CAN Engines
- ✔ License Free Software
- ✔ Largest Backlit Icon Display In Its Class
- ✔ Fully Configured Via The Fascia Or Pc Using Usb
- ✔ Efficient Power Save Mode

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