

GENERATOR MODEL P80

Frequency/ Speed - Voltage	50HZ/1500 RPM-230/400V	
Prime Power	80 KVA	64 KW
Standby Power	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

Empower 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.

PERKINS ENGINE TECHNICAL DATA

Model: 1104A-44TG2



STRUCTURE

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



FUEL

	1500 RPM	1800 RPM
Fuel Tank	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)		
Fuel Consumption		
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



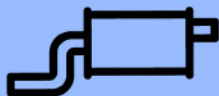
COOLING SYSTEM

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



AIR INLET

Air Intake Engine (Clean Filter/Dirty)	5/8 KPa
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EXHAUST SYSTEM

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



DC SYSTEM STARTING/CHARGING



Heat Rejection(prime)



LUBE SYSTEM



GOVERNOR



STRUCTURE

Cranking Battery Voltage

12 V

Battery Charging Alternator

65 A

Dc Voltage Monitoring via

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

8 L Lubricating System Oil Capacity

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

CONTROL MODULE

Deep Sea Model: DSE 6020



INDICATIONS

- ✓ Operating Hours
- ✓ 3 Phase Generator Voltage Sensing & Monitoring
- ✓ Current Protection & Monitoring
- ✓ Power Measurement (kW, kVA, kVA_r, kWh, kVAh, kVA_{rh}, 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

Contact Numbers

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