

## GENERATOR MODEL P200

Frequency/ Speed - Voltage	50HZ/1500 RPM-230/400V	
Prime Power	200 KVA	160 KW
Standby Power	220 KVA	176 KW



## Features



### Engine

Perkins, 1106A-70TAG4/1506A-E88TAG1, 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: 1106A-70TAG4/1506A-E88TAG1



## STRUCTURE

Number of Cylinders	6
Engine Build	In line
Bore	105 mm
Stroke	135 mm
Displacement	7.0 L
Compression Ratio	16.0:1
Aspiration	Turbocharged
Cooling	Air to Air



## 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)	40.2	TBA
75% Load (g/kWh-L/hr)	30.9	TBA
50% Load (g/kWh-L/hr)	19.7	TBA



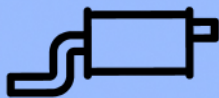
## COOLING SYSTEM

Engine Coolant Capacity	27 L	
Air Flow-Radiator	TBA	TBA
Radiator with 50 degree		
Cooling Package & Air Cleaner		
Thermostatically-controlled		



## AIR INLET

Air Intake Engine (Clean Filter/Dirty)	TBA
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## EXHAUST SYSTEM

Exhaust Gas Temperature	TBA	TBA
Exhaust Gas Flow (Prime)	TBA	TBA
Maximum Exhaust System Back		
Pressure	6 KPa	TBA
Stainless Steel exhaust flex-		



## DC SYSTEM STARTING/CHARGING



## Heat Rejection(prime)



## LUBE SYSTEM



## GOVERNOR



## STRUCTURE

<b>Cranking Battery Voltage</b>	12 V
<b>Battery Charging Alternator</b>	85 A
Dc Voltage Monitoring via	

<b>Radiated Heat to Ambient</b>	TBA	TBA
<b>Heat Rejection to Coolant</b>	TBA	TBA
<b>Heat Rejection to Exhaust</b>	TBA	TBA
<b>Heat Rejection to intercooler</b>	TBA	TBA

16.5 L   **Lubricating System Oil Capacity**

Electronic

# ALTERNATOR TECHNICAL DATA



<b>Insulation System</b>	Class H
<b>Winding Pitch</b>	2/3 to minimize harmonics effects
<b>Number of Poles</b>	4
<b>Number of Bearings</b>	Single bearing
<b>RPM</b>	1500 RPM
<b>Power Factor</b>	0.8
<b>Regulation</b>	± 1%
<b>Frequency</b>	50 Hz
<b>Voltage Range</b>	380-415 / 220-240
<b>IP Rating (Protection)</b>	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<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

### Contact Numbers

UAN: 03-111-555-105 | Phone: +92 321-3892100 | +92 332-1319962  
Email: [contact@ridgeandco.com](mailto:contact@ridgeandco.com)