



Warehouse Racking Systems \ Mezzanine Floors \ Generators & Compressors

# **PP Perkins 22**

Prime Power Generator Three Phase

## **Specifications**

Alternator	
Make	Stamford/Leroy Somer
Model	P1144D/TAL040F
Frequency	50Hz & 1500rpm
Output Continuous / Standby	20/22 KVA
Rotating Speed	1500RPM
No. of Phases	Three Phase 12 wires
Rated Voltage	380/415
Power Factor	0.8

Engine	
Make & Model	Perkins 404A - 22G1
Туре	Mechanical
Output Rating	380-415 V, 3 ph, 50Hz, 1500rpm 20-22KVA/16-17.6KW
No. of Cylinders-Bore X Stroke	84 x 100mm
Piston Displacement	2.216L
Fuel	Diesel
Fuel Consumption	2.9 L/H <b>@50% load</b> L/H 4.0 L/H <b>@75% load</b> L/H 5.3 - 6.1 L/H <b>@100% load</b> L/H
Lube Oil Sump Cap	10.6L
Coolant Capacity	7.0L
Battery Capacity	12 - 60x1pc
Fuel Tank Capacity	130
Cooling System	Water - Cooled
Cycle	4 Stroke
Combustion System	Indirect Injection
Compression Ratio	23.3:1
Rotation	Anti-clockwise
Exhaust Temperature °C	445 - 505
Gross Engine Power	18.7KW (25.1hp) - 20.6KW (27.6hp)
Unit	

Control Panel	
Make	Deep Sea
Model	4000 Series

127x 54x 107

475kg



#### **Alternator**

#### **INSULATION SYSTEM**

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

#### **AUTOMATIC VOLTAGE REGULATOR (AVR)**

The fully sealed automatic voltage regulator maintains the voltage regulation at ±1%. Nominal adjustment by means of a trim pot incorporated on the AVR.

#### 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.

#### **Mounting Arrangement**

#### **BASE FRAME**

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

#### COUPLING

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

#### **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.

### SAFETY GUARDS

The Fan & Fan Drive along with the bettery Charging Alternator are safety Guard protected for personnel protection

#### Engine / Engine Filteration System

Perkins four stroke heavy duty high performance industrial type diesel engine.

- Catridge type dry air filter.
- Two Cartridge type fuel filter.
- Full flow lube oil filter.

All filters have replaceable elements.

Dimensions (L/W/H cm)

Wet Weight