



**POWERPLUS**  
SOLAR & GENERATOR

Warehouse Racking Systems \ Mezzanine Floors \ Generators & Compressors

## PP Perkins 88

Prime Power Generator Three Phase

### Specifications

#### Alternator

Make	Stamford/Leroy Somer
Model	UCI224G/TAL044B
Frequency	50Hz & 1500rpm
Output Continuous / Standby	80/88 KVA
Rotating Speed	1500RPM
No. of Phases	Three Phase 12 wires
Rated Voltage	380/415
Power Factor	0.8

#### Engine

Make & Model	Perkins 1104A - 44TG2
Type	Mechanical
Output Rating	380-415 V, 3 ph, 50Hz, 1500rpm 80-88KVA/64-70KW
No. of Cylinders-Bore X Stroke	4-(105 x 127mm)
Piston Displacement	4.4L
Fuel	Diesel
Fuel Consumption	9.7 - 11.9 L/H @50% load L/H 14 - 16.9 L/H @75% load L/H 18.7 - 22.3 L/H @100% load L/H
Lube Oil Sump Cap	8L
Coolant Capacity	13.0L
Battery Capacity	12 - 60x1pc
Fuel Tank Capacity	190L
Cooling System	Water - Cooled
Cycle	4 Stroke
Combustion System	Direct Injection
Compression Ratio	17.25:1
Rotation	Anti-clockwise
Exhaust Temperature °C	555 - 535
Gross Engine Power	73.4KW(98.4hp) - 80.7KW (108.2hp)

#### Unit

Dimensions (L/W/H cm)	211x 69x 130
Wet Weight	1010kg

#### Control Panel

Make	Deep Sea
Model	4000 Series



#### Alternator

##### INSULATION SYSTEM

- The insulation system is class H.
- All windings are impregnated in either a triple dip themorsetting liquid, oil and acid resisiting polyester varnish or vacuum pressure impregnated with a special polyester 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  $\pm 1\%$ . 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 battery Charging Alternator are safety Guard protected for personnel protection

##### Engine / Engine Filtration System

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

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

All filters have replaceable elements.