



POWERPLUS
SOLAR & GENERATOR

Warehouse Racking Systems \ Mezzanine Floors \ Generators & Compressors

PP Perkins 13

Prime Power Generator Three Phase

Specifications

Alternator

Make	Stamford/Leroy Somer
Model	PI044F1
Frequency	50Hz & 1500rpm
Output Continuous / Standby	12.5 / 13 KVA
Rotating Speed	1500RPM
No. of Phases	Three Phase 4 wire
Rated Voltage	380/415
Power Factor	0.8

Engine

Make & Model	Perkins 403A-15G1 - 403D-15G
Type	Mechanical
Output Rating	380-415 V, 3 ph, 50Hz, 1500rpm 12.5-13KVA/10-10.4KW
No. of Cylinders-Bore X Stroke	3-84 x 90mm
Piston Displacement	1.496L
Fuel	Diesel
Fuel Consumption	2.0 L/H @50% load L/H 2.8 L/H @75% load L/H 3.7 L/H @100% load L/H
Lube Oil Sump Cap	6.0L
Coolant Capacity	6.0L
Battery Capacity	12 - 60lpc
Fuel Tank Capacity	TBA
Cooling System	Water - Cooled
Cycle	4 Stroke
Combustion System	Indirect Injection
Compression Ratio	22.5:1
Rotation	Anti-clockwise
Exhaust Temperature °C	445 - 490

Unit

Dimensions (L/W/H cm)	127x 54x 107
Wet Weight	400kg

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.

50Hz/60Hz Operation

The DCA series can be operated at 50Hz by simply adjusting the engine speed using the throttle control knob on the control panel.

Mounting Arrangement

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.