



POWERPLUS
SOLAR & GENERATOR

Warehouse Racking Systems \ Mezzanine Floors \ Generators & Compressors

PC Cummins 275

Prime Power Generator Three Phase

Specifications

Alternator

| | |
|-----------------------------|----------------------|
| Make | Stamford |
| Model | HCI434D / 444D |
| Frequency | 50Hz & 1500rpm |
| Output Continuous / Standby | 275/302 KVA |
| Rotating Speed | 1500RPM |
| No. of Phases | Three Phase 12 wires |
| Rated Voltage | 380/415 |
| Power Factor | 0.8 |

Engine

| | |
|--------------------------------|--|
| Make & Model | NTA855-G1A |
| Type | 4 cycle, in-line, Turbo charged |
| Output Rating | 380-415 V, 3 ph, 50Hz, 1500rpm 275-302KVA/220-242KWe |
| No. of Cylinders-Bore X Stroke | 6-(140 x 152mm) |
| Piston Displacement | 14L |
| Fuel | Diesel |
| Fuel Consumption | 26.5L/H @50% load L/H 40L/H @75% load L/H 53L/H @100% load L/H |
| Lube Oil Sump Cap | 38.6 |
| Coolant Capacity | 61L |
| Battery Capacity | 24V - 125x2pc |
| Fuel Tank Capacity | 410L |
| Cooling System | Air-Air Charge Cooled |
| Cycle | 4 Stroke |
| Combustion System | Direct Injection |
| Compression Ratio | 16.1:1 |
| Rotation | Anti-clockwise |
| Exhaust Temperature °C | 50 |
| Gross Engine Power | 231kWm - 254kWm |

Unit

| | |
|-----------------------|---------------|
| Dimensions (L/W/H cm) | 336x 117x 203 |
| Wet Weight | 2250kg |

Control Panel

| | |
|-------|-------------|
| Make | Deep Sea |
| Model | 7000 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

Cummins 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.