

230 KVA 3 PHASE 50H



250 KVA 60Hz 3 PHASE

GENERATING SET MODEL UPS P 230

Output Ratings

| | Prime | Standby |
|----------------------------------|-------------------|-------------------|
| 380-415 V, 3 ph, 50 Hz, 1500 rpm | 230 KVA 184 KW | 236 KVA 189 KW |
| 380-415 V, 3 ph, 60 Hz, 1800 rpm | 248 KVA 198 KW | 250 KVA 202 KW |

ENGINE/ TECHNICAL DATA

Ratings at 0.8 Power Factor

| | | |
|---|--------------------------|----------------|
| Engine Make | PERKINS | |
| Engine Model | 1206A-E70TTAG2 | |
| Governing Type | Electronic | |
| Number of Cylinders | 6 | |
| Cylinder Arrangement | Vertical in line | |
| Bore and Stroke mm | 105 X 135 | |
| Displacement/ Cubic Capacity litres | 7.01 | |
| Induction System | Turbocharged aftercooled | |
| Cycle | 4 stroke | |
| Combustion System | Direct Injection | |
| Compression Ratio | 15.8:1 | |
| Frequency and Engine Speed | 50Hz & 1500rpm | 60Hz & 1800rpm |
| Gross Engine Power kW(hp) | 204.2(273.7) | 216.6(493) |
| Fuel Consumption @50% load L/hr | 25.5 | 27.8 |
| @75% load L/hr | 38 | 40.4 |
| @100% load L/hr | 51 | 54.5 |
| Total Lubrication System Capacity litres | 13 | 16 |
| Total Coolant Capacity (inc. radiator) litres | 25 | 25 |
| Exhaust Temperature: °C | | |

Image is for illustrative purpose only



ALTERNATOR DATA

| | |
|--------------------|--------------------|
| Make | UPS/ Leroy Somer |
| Model | UPS274G/ (TAL)046C |
| No. of Bearings | 1 |
| Insulation class | H |
| Wires | 6/12 |
| Ingress Protection | IP23 |
| Excitation System | Shunt |
| Winding Pitch | 2/3 |

Overspeed 2250 mn-1

Voltage Regulation (Standby) ±1%

CONTROL PANEL

| | |
|-------|-------------|
| Make | DeepSea |
| Model | 7000 Series |

The **DSE 7000 series** is an Auto Start Control Module for single genset applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software. **Metering and Alarm Indications:**

- Generator frequency
- Underspeed, Overspeed
- Generator volts (L-L-L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Low DC Voltage
- CAN diagnostics and CAN fail/error

STANDARD SPECIFICATIONS

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1. ENGINE

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

2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
 - Two cartridge type fuel filter.
 - Full flow lube oil filter.
- All filters have replaceable elements.

3. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards designed to cool the engine at high ambient temperatures (consult your dealer for de-rating factors)

4. EXHAUST SYSTEM

Exhaust gas flow 31..3 (m3/min)
Maximum allowable back pressure 18.0 (kPa)

5. CIRCUIT BREAKER TYPE

3 pole MCCB. (4 pole is optional)

6. FUEL SYSTEM

The baseframe design is incorporated with an integral fuel tank with a capacity of approx.. 8 hours running at Full load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and the drain plug.

7. ALTERNATOR

7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermoset-Ting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- Heavy coat of antitracking varnish additional protection Against moisture or condensation.

7.2 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.

8. MOUNTING ARRANGEMENT

8.1 COUPLING The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor. **8.2 ANTI-VIBRATION MOUNTING PADS**

Anti-Vibration pads are affixed between Engine/Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

8.3 SAFETY GUARDS

The Fan & Fan Drive along with the battery Charging Alternator are Safety Guard protected for personnel protection.

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9. FACTORY TEST

- The Generating set is load tested before
- dispatch All protective device control functions and site load conditions are simulated. The generator and its systems are checked before dispatch.

10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

11. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning/ Fault Finding instruction leaflets are accompanied with the Generator.

12. QUALITY STANDARDS

The equipment meets the following standards, BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

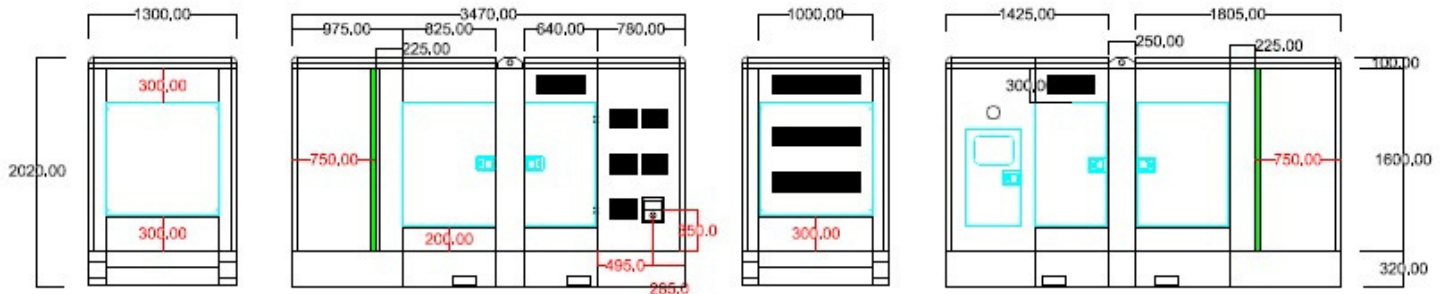
13. WARRANTY

All of the Generating sets are covered under a warranty policy. For a period of 12 months or 1000 working hours. Warranty of the equipment is in line with manufacturers warranty terms & conditions. (check warranty statement for more details, as it may vary for different countries.) In line with the continuous product development, we reserve

The right to change specifications without notice.

STANDARD GENERATOR DIMENSION AND WEIGHT

Silent Type (with Soundproof Canopy)



Open Type (without Soundproof Canopy)

