

350 KVA
3 PHASE **50 Hz**

Cummins

60 Hz **380 KVA**
3 PHASE

GENERATING SET MODEL (UPS P350)

| Output Ratings | Prime | Standby |
|----------------------------------|-------------------|-------------------|
| 380-415 V, 3 ph, 50 Hz, 1500 rpm | 310 KVA 248 KW | 340 KVA 272 KW |
| 480 V, 3 ph, 60 Hz, 1800 rpm | 350 KVA 280 KW | 388 KVA 310 KW |

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

| | | |
|--|---|----------------|
| Engine Make | Cummins | |
| Engine Model | MTAA11-G3 | |
| Governing Type | Electronic | |
| Number of Cylinders | 6 | |
| Cylinder Arrangement | Vertical in line | |
| Bore and Stroke mm | 125 X 147 | |
| Displacement / Cubic Capacity litres | 10.8 | |
| Induction System | Turbocharged and air to air charge cooled | |
| Cycle | 4 stroke | |
| Combustion System | Direct Injection | |
| Compression Ratio | 15.0:1 | |
| Rotation | Anti-clockwise, viewed on flywheel | |
| Cooling System | Water - cooled | |
| Frequency and Engine Speed | 50Hz & 1500rpm | 60Hz & 1800rpm |
| Gross Engine Power kW (hp) | 324 (434) | 368 (493) |
| Fuel Consumption @ 50% load L/hr | 28.3 | 43 |
| @ 75% load L/hr | 46 | 62 |
| @ 100% load L/hr | 62.8 | 81 |
| Total Lubrication System Capacity litres | 36.7 | 40 |
| Total Coolant Capacity litres | 9.5 | 9.5 |
| Exhaust Temperature: °C | 595 | 595 |

ALTERNATOR DATA

| | |
|--------------------|------------------------|
| Make | UPS / LeroySomer |
| Model | UPS314F/LSA (TAL) 046H |
| No. of bearings | 1 |
| Insulation class | H |
| Wires | 6/12 |
| Ingress Protection | IP23 |
| Excitation System | SHUNT |
| Winding Pitch | 2/3 |
| AVR Model | |

Voltage Regulation (steady) ± 1 %

CONTROL PANEL

| | |
|-------|-------------|
| Make | Deep Sea |
| Model | 4000 SERIES |

The DSE4000 Series is an Auto Start Control for single genset applications. It includes a LCD display which clearly shows the status of 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

Image for illustrative purposes only



3 PHASE

STANDARD SPECIFICATIONS

3 PHASE

1. ENGINE

2. ENGINE FILTRATION SYSTEM

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

3. COOLING RADIATOR

4. EXHAUST SYSTEM

| | |
|---------------------------------|--------------------------|
| Exhaust gas flow | 75.8 m ³ /min |
| Maximum allowable back pressure | 10.7 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 drain plug.

7. ALTERNATOR

7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermosetting 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 the 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.

9. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and it's 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)

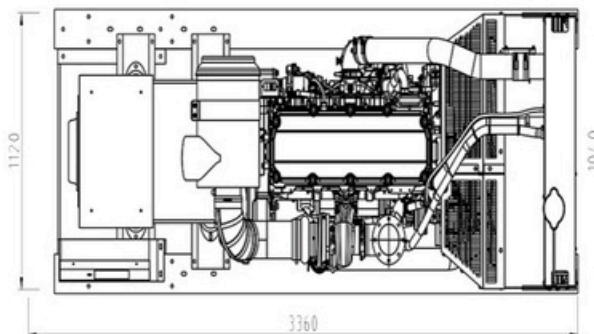
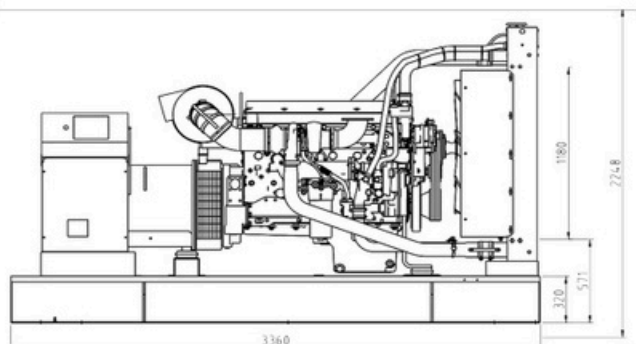
In line with continuous product development, we reserve the right to change specifications without notice.

STANDARD GENERATOR DIMENSION AND WEIGHT

Silent Type (with Soundproof Canopy)



Open Type (without Soundproof Canopy)



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