

400 KVA
3 PHASE

50 Hz

Cummins

GENERATING SET MODEL (UPS P400)

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	400 KVA 320 KW	450 KVA 360 KW
380-415 V, 3 ph, 60 Hz, 1800 rpm	395 KVA 316 KW	441 KVA 352.8 KW

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make	Cummins
Engine Model	QSNT-G3
Governing Type	Electronic
Number of Cylinders	6
Cylinder Arrangement	Vertical in line
Bore and Stroke mm	140 X 1152
Displacement / Cubic Capacity litres	14
Induction System	Turbocharged and air to air charge cooled
Cycle	4 stroke
Combustion System	Direct Injection
Compression Ratio	16.3:1
Rotation	Anti-clockwise, viewed on flywheel
Cooling System	Water - cooled
Frequency and Engine Speed	50Hz & 1500rpm 60Hz & 1800rpm
Gross Engine Power kW (hp)	451 (605) 495 (664)
Fuel Consumption @ 50% load L/hr	42.6
@ 75% load L/hr	62.2
@ 100% load L/hr	83.9
Total Lubrication System Capacity litres	38.6 38.6
Total Coolant Capacity litres	
Exhaust Temperature: °C	497 497

60 Hz

441 KVA
3 PHASE

ALTERNATOR DATA

Make	UPS / Leroy Somer
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

Overspeed	2250 mn ⁻¹
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



400 KVA**3 PHASE****50 Hz****STANDARD SPECIFICATIONS****60 Hz****441 KVA****3 PHASE****1. ENGINE**

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

2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
 - Two Cartridge type fuel filters.
 - 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-ration factors)

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

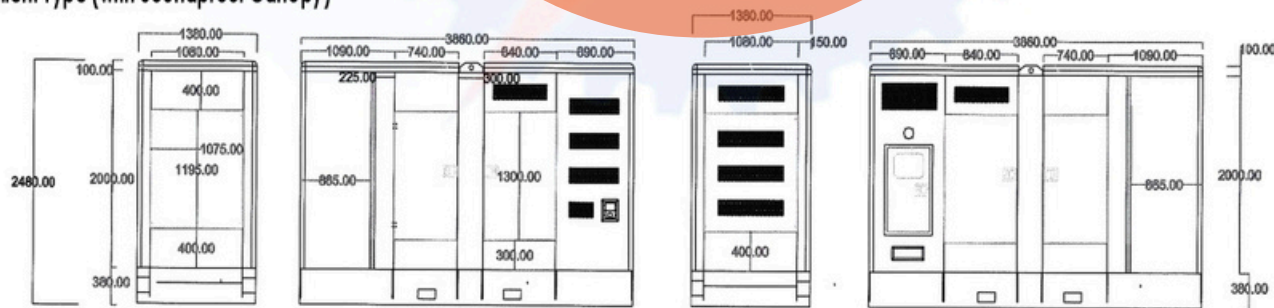
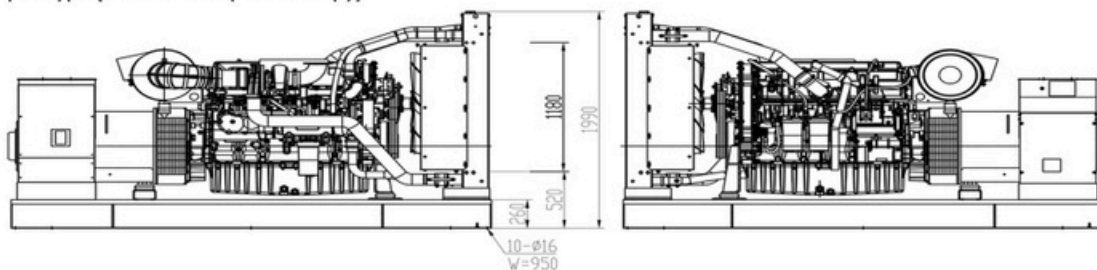
The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

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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