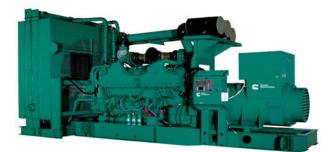




Diesel Powered Generating Sets C2250 D5



Standard Genset Features

Cummins water cooled Diesel engine, Oil and fuel filter fitted, water separator Lube-oil drain valve fitted Electric starter & Charge alternator 24 v D.C. Electronic governor Normal duty air filter Single bearing alternator, class H/H Standard voltage 400/230 volts 50 Hz Exciter/Voltage reg - Torque Match as standard PCC3201 with Bargraph as standard Steel base frame with A/V mounting, Engine, Alternator, Chassis & Control Box Munsell Jade Green Radiator Packing under shrunk plastic film Operation & Maintenance manual Standard set of labels

Generator Set Performance

Voltage Regulation Maintains voltage output to within ±1.0%. At any power factor between 0.8 and 1.0 At any variations from No load to Full load At any variations from Cold to Hot

At speed droop variations up to 4.5%. **Frequency Regulation**

Isochronous under varying loads from no load to 100% full load when electronic governor is fitted

Random Frequency Variation

Will not exceed ±0.25% of its mean value for constant loads - no load to full load. Waveform

Total harmonic distortion open circuit voltage waveform in the order of 1.8%. Three-phase balanced load in the order of 5.0%. **Telephone Influence Factor (TIF)**

TIF better than 50. THF to BS 4999 Part 40 better than 2%. Alternator Temperature Rise Class H insulation.

Radio Interference

In compliance with BS 800 and VDE levels G and N.

Alternator Specification

Туре

Brushless single bearing, revolving field, pole, drip proof, screen protected. Class H Insulation, IP23 Protection Fully interconnected damper winding. AC exciter and rotating rectifier unit. Epoxy coated stator winding. Rotor and exciter impregnated with tropica grade insulating oil and acid resisting polyester resin. Dynamically balanced roto BS 5625 grade 2.5. Sealed for life bearings Layer wound mechanically wedged rotor

Exciter

Triple dipped in moisture, oil and acid resisting polyester varnish and coated with anti-tracking varnish.

Output windings with 2/3 pitch for improved harmonics and paralleling ability. Close coupled engine/alternator for perfec alignment.

Generator Set Options Fuel options

Fuel Tank

Exhaust Options

Exhaust Silencer - Industrial In-Line Exhaust Bellows Exhaust Silencer - Residential , In-Line Installation Kit - Industrial Silencer Installation Kit - Residential Silencer

Voltage Connections

240/416V, 230/400V, 220/380V, 127/220V, 115/200V, 110/190V

Miscellaneous Options

3 pole or 4 pole Circuit Breaker Optional Set mounted starting batteries Coolant Heater 240V Battery Charger 240V, 5A or 10A Automatic Transfer Switches Packing - Export Box

Compliance Standards

To BS4999/5000 pt 99, VDE 0530, UTE5100, NEMA MG1-22, CEMA, IEC 34, CSA A22.2, AS1359 BSS 5514 ISO 3046 and ISO 8528

Engine Specification

QSK60G4

60° Vee

16-cylinder diesel engine. Type

Water cooled, four cycle, turbocharged and low temperature aftercooled Construction

Two valves per cylinder, forged stee crankshaft and connecting rods, cast iron block.

Starting

24 volt negative earth. Battery charging alternator 35 amp on engine. Cranking current 1800 amps at 0℃.

Fuel System

24 volt fail safe actuator. Spin-on paper element fuel filters with fuel pump injection system with integral electronic governor. Dual flexible fuel lines and connectors. Standard fuel water separator Filters

Air cleaner with dry element.

Spin-on full flow lube oil filter Cooling

40 ℃ ambient temperature standard Stone guard. Drain Tap

Model name	kVA		kWe		
	Standby	Prime	Standby	Prime	
C2250 D5	2250	2000	1800	1600	





Technical Data

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Model	C2250 D5	Speed	1500rpm
Set output	380-440 V 50 Hz	Alternator voltage regulation	±1.0%
Prime Rating	1600 kWe 2000 kVA	Alternator insulation class	н
Standby Rating	1800 kWe 2250 kVA	Fuel consumption (Prime)	394 l/hr
Engine Make	Cummins	Fuel consumption (Standby)	427 l/hr
Engine Model	QSK60G4	Lubrication system oil capacity	280 Litres
Cylinders	Sixteen	Base fuel tank capacity – open set	NA
Engine build	60° Vee	Coolant capacity	621 Litres
Standard Governor/Class	Electronic	Exhaust temp – prime	430℃
Aspiration and cooling	Turbocharged and Low Temperature Aftercooled	Exhaust gas flow – prime	5190 l/s
Bore and stroke	159 mm x 190 mm	Exhaust gas back pressure max	51 mm Hg
Compression Ratio	14.5:1	Air flow – radiator*	27.0 m³/s
Cubic capacity	60.2 Litres	Air intake – engine (Prime)	2264 Litres/s
Starting/Min °C	10°C	Minimum air opening to room	8.9 m³
Battery capacity	254 A/hr	Minimum discharge opening	5.9 m³
Gross Engine output – Prime	1730 kWm	Pusher fan head (duct allowance)*	13 mm Wg
Gross Engine output – Standby	1915 kWm	Heat radiated by eng (Prime)	160 kWm

PRIME POWER

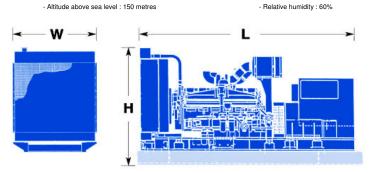
Prime Power is available continuously during the period of power outage in a variable load application. Variable load should not exceed a 70% average of the prime power rating during any 24 hour period. A 10% overload capability is available for a period of 1 hour within a 12 hour period of operation.

STANDBY POWER

The Standby Power is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating. In installations served by unreliable utility sources (where outages last longer or occur more frequently), where operation is likely to exceed 200 hours per year, the prime power rating should be applied. The Standby Power rating is only applicable for emergency and standby applications where the generator set serves as the back up to the normal utility source.

All ratings are based on the following reference conditions:

- Ambient temperature : 27 °C



Dimensions and Weights

Open Version

Model	Engine	Length (mm)	Width (mm)	Height (mm)	Dry weight without tank (Kg)	Wet weight without tank (Kg)
C2250 D5	QSK60G4	5891	2270	2550	15245	16000

Specifications may change without notice

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