

Diesel Powered Generating Sets C250-D5



Standard Genset Features	Generator Set Performance	Generator Set Options
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Cummins water cooled Diesel engine,
Oil and fuel filter fitted, water separator,,
Lube-oil drain valve fitted
Electric starter & Charge alternator 12 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 std
PCC2100 without Bargraph as standard
3 pole C/B
Bolted steel base frame with A/V mounting,
Fork lift pockets in baseframe
Single skin plastic fuel tank
Tank capacity of min 8 hours operation at
70% standby load
Loose 9 dB(A) silencer
Set mounted starting batteries
Engine & Alternator Munsell Jade Green
Chassis, Controller box and radiator black
Packing under shrunk plastic film
Operation & Maintenance manual
Standard set of labels

Generator Set Performance
Voltage Regulation
Maintains voltage output to within $\pm 1.0\%$.
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 $\pm 0.25\%$ 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.

Generator Set Options
Mechanical Options
Compliance - CE Certification (Guarding)
Fuel options
Fuel Tank deletion
Steel Fuel Tank replacing Plastic Fuel Tank
Exhaust Options
Exhaust Silencer - Industrial (9 dB), In-Line
Exhaust Bellows
Exhaust Silencer - Residential (25 dB), In-Line
Installation Kit - Industrial Silencer
Installation Kit - Residential Silencer
Warranty
Warranty - 5 Year Extended Standby Appln
Warranty - 2 Year Extended Prime Appln
Voltage Connections
254/440V
240/416V
230/400V
220/380V
127/220V
115/200V
110/190V

Engine Specification	Alternator Specification	Miscellaneous Options
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6CTAA8.3G2
In-line direct injection
6-cylinder diesel engine.
Type
Water cooled, four cycle, turbocharged
and after cooled.
Construction
Two valves per cylinder, forged steel
crankshaft and connecting rods, cast iron
block.
Starting
12 volt negative earth. Battery charging
alternator 37 amp on engine. Cranking
current 625 amps at 0°C.
Fuel System
12 volt fail safe actuator. Spin-on paper
element fuel filters with Stanadyne fuel
pump injection system with integral
mechanical governor. Dual flexible fuel lines
and connectors. Standard fuel water
separator.
Filters
Air cleaner with dry element and restriction
indicator. Spin-on full flow lube oil filter.
Cooling
50°C radiator as std
Stone guard. Oil cooler. Drain Tap

Alternator Specification
Type
Brushless single bearing, revolving field,
pole, drip proof, screen protected.
Class H Insulation.
IC 01 cooling system.
Fully interconnected damper winding.
AC exciter and rotating rectifier unit.
Epoxy coated stator winding.
Rotor and exciter impregnated with tropical
grade insulating oil and acid resisting
polyester resin. Dynamically balanced rotor
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 perfect
alignment.

Coolant heater -240V
Battery Charger 240V,5A
AUTO START - AMF Module (Loose)
Packing - Export Box
4 POLE MCCB
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

Model name	kVA	PRP	kWe	ESP	PRP
C250 D5	250	227	200		182