

## **Diesel Powered Generating Sets** C135 D6



#### Standard Genset Features

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 480/277 volts 60 Hz Exciter/Voltage reg - Torque Match as std PCC1301 (PCC2100 as Option) 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

## **Engine Specification**

6BTA5.9G2 In-line direct injection 6-cylinder diesel engine. Туре 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 ?Iters with Stanadyne fuel pump injection system with integral mechanical governor. Dual ?exible fuel lines and connectors. Standard fuel water separator. Filters Air cleaner with dry element and restriction indicator. Spin-on full ?ow lube oil ?lter.

#### Cooling

50°C radiator as std Stone guard. Oil cooler. Drain Tap

#### 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 ?tted.

## **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 In?uence 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 ?eld, pole, drip proof, screen protected. Class H Insulation. IC 01 cooling system. Fully interconnected damper winding. AC exciter and rotating recti?er 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.

#### **Generator Set Options**

Mechanical Options Compliance - CE Certification (Guarding)

Fuel options Fuel Tank deletion

#### Exhaust Options

Exhaust Silencer - Industrial (9 dB), In-Line Exhaust Bellows Exhaust Silencer - Residential (25 dB), In-Line Installation Kit - Industrial Silencer

#### Warranty

Warranty - 5 Year Extended Standby Appln Warranty - 2 Year Extended Prime Appln

### Voltage Connections

277/480V 254/440V 240/416V 220/380V 139/240V 127/220V 120/208V

### Miscellaneous Options

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	k\	/A	kWe		
ſ		ESP	PRP	ESP	PRP	
	C135 D6	168.8	152.5	135.0	122.0	
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Specifications may change without notice

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# **TECHNICAL DATA**

Model	C135 D6	Speed	#N/A
Set output	#N/A	Alternator voltage regulation	#N/A
Prime Rating	#N/A	Alternator insulation class	#N/A
Standby Rating	#N/A	Fuel consumption (Prime)	#N/A
Engine Make	#N/A	Fuel consumption (Standby)	#N/A
Engine Model	#N/A	Lubrication system oil capacity	#N/A
Cylinders	#N/A	Base fuel tank capacity – open set	#N/A
Engine build	#N/A	Coolant capacity	#N/A
Standard Governor/Class	#N/A	Exhaust temp – prime	#N/A
Aspiration and cooling	#N/A	Exhaust gas flow – prime	#N/A
Bore and stroke	#N/A	Exhaust gas back pressure max	#N/A
Compression Ratio	#N/A	Air flow – radiator*	#N/A
Cubic capacity	#N/A	Air intake – engine (Prime)	#N/A
Starting/Min °C	#N/A	Minimum air opening to room	#N/A
Battery capacity	#N/A	Minimum discharge opening	#N/A
Gross Engine output – Prime	#N/A	Pusher fan head (duct allowance)*	#N/A
Gross Engine output – Standby	#N/A	Heat radiated by eng (Prime)	#N/A

PRIME POWER (PRP)

Prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation, in accordance with ISO 3046-1.

STANDBY POWER RATING (ESP) The Standby Power Rating 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.

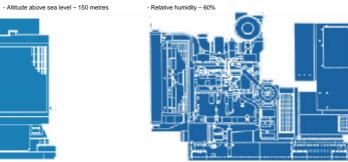
In installations served by unreliable utility sources (where outages last longer or occur more frequently), where operation is likely to exceed 200 hours per year, the prime power rating should be applied.

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 - 27oC

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## **Dimensions and Weights**

Model	Engine	Length (mm)	Width (mm)	Height (mm)	Set weight wet (Kg)	Set weight dry (Kg)	Enclosed Weight Wet (Kg)
C135 D6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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## **Cummins Power Generation Limited**

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## See your distributor for more information.

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