

## Generator set data sheet

**Model:** C330D5  
**Frequency:** 50Hz  
**Fuel type:** Diesel  
**kW rating:** 264 Standby  
 240 Prime  
 199 Continuous  
**Emissions level:** Unregulated

Exhaust emission data sheet:	
Sound performance data sheet:	
Cooling performance data sheet:	
Genset outline:	C500-0052 / C500-0062

Fuel consumption	Standby				Prime				Continuous			
	kW (kVA)				kW (kVA)				kW (kVA)			
Ratings	264 (330)				240 (300)				199 (249)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	5,8	10,6	15,9	19,8	4,5	8,2	12,2	16,6	4,0	6,6	10,6	14,0
L/h	22,0	40,0	60,0	75	17	31,0	46,0	63,0	15	25	40	53

Engine	Standby rating	Prime rating	Continuous rating
Engine manufacturer	Cummins Inc.		
Engine model	QSL9-G5		
Configuration	6-Cylinder		
Aspiration	Turbocharged/ Charge Air Cooled		
Gross engine power output, kWm (bhp)	310 (415)	268 (359)	228 (305)
BMEP at set rated load, kPa (psi)	2785 (404)	2413 (350)	
Bore, mm (in.)	114 (4,49)		
Stroke, mm (in.)	145 (5,69)		
Rated speed, rpm	1500		
Piston speed, m/s (ft/min)	7,2 (1422)		
Compression ratio	16,8:1		
Lube oil capacity, L (US gal)	26,5 (7)		
Overspeed limit, rpm	1800 ±50		

### Fuel flow

Maximum fuel flow, L/hr (US gph)	165 (43)
Maximum fuel inlet restriction, kPa (in Hg)	20,32 (6)
Maximum fuel inlet temperature, °C (°F)	70 (160)
Maximum fuel return line restriction, kPa (in Hg)	33,86 (10)

### Air

	Standby rating	Prime rating	Continuous rating
Combustion air, CFM (L/s)	720,42 (340)	656,85 (310)	
Maximum air cleaner restriction, kPa (in H <sub>2</sub> O)	6,23 (25)		
Alternator cooling air, m <sup>3</sup> /min (cfm)	48 (1700)		

### Exhaust

Exhaust flow at set rated load, CFM (L/s)	1864,61 (880)	1589,16 (750)	
Exhaust temperature, °C (°F)	560 (1040)	500 (930)	
Maximum back pressure, kPa (in H <sub>2</sub> O)	10,16 (40,83)		

### Standard set-mounted radiator cooling

Ambient design, °C (°F)	54 (129,2)		
Fan load, kWm (HP)	13,5 (18,09)		
Coolant capacity (with radiator), L (US gal)	29 (7,66)		
Cooling system air flow, m <sup>3</sup> /min (scfm)	474 (16637,4)		
Total heat rejection, MJ/min (Btu/min)	6,97 (6610)	5,86 (5550)	
Maximum cooling air flow static restriction, kPa (in H <sub>2</sub> O)	0,12 (0,5)		

### Weights

Unit Open dry weight, kgs	2328
Unit Open wet weight, kgs	2381
Unit Enclosed dry weight, kgs	3360
Unit enclosed wet weight, kgs	3410

## Derating factors

<b>Standby</b>	Full rated power available up to 600 m (1968 ft) elevation at ambient temperature of 40°C (104°F). Above these conditions, derate by an additional 4% per 300 m (1000 ft), and 4% per 10 °C (18 °F). For other temperature and altitude limits, consult your local Cummins distributor.
<b>Prime</b>	Full rated power available up to 1250 m (4101 ft) elevation at ambient temperature of 40°C (104°F). Above these conditions, derate by an additional 5% per 300 m (1000 ft), and 8% per 10 °C (18 °F). For other temperature and altitude limits, consult your local Cummins distributor.
<b>Continuous</b>	Full rated power available up to 1100 m (3608 ft) elevation at ambient temperature of 40°C (107°F). For other temperature and altitude limits, consult your local Cummins distributor.

## Ratings definitions

<b>Emergency Standby Power (ESP):</b>	<b>Limited-Time Running Power (LTP):</b>	<b>Prime Power (PRP):</b>	<b>Base Load (Continuous) Power (COP):</b>
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

## Alternator data

Voltage	Connection	Temp rise degrees C	Duty <sup>1</sup>	Winding No.	Frame Size
220	Wye, 3Phase	150	S/P/C	311	HC4D
380	Wye, 3Phase	150	S/P/C	311	HC4D
400	Wye, 3Phase	150	S/P/C	311	HC4D
440	Wye, 3Phase	150	S/P/C	311	HC4D

### Notes:

<sup>1</sup> Standby (S), Prime (P) and Continuous ratings (C).

## Formulas for calculating full load currents:



### Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

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