



## Generator set data sheet

**Model:** C300D5B  
**Frequency:** 50 Hz  
**Fuel type:** Diesel

<b>Spec sheet:</b>	
<b>Noise data sheet (open):</b>	
<b>Airflow data sheet:</b>	
<b>Derate data sheet (open):</b>	
<b>Transient data sheet:</b>	

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
<b>Ratings</b>	300 (240)				275 (220)			
<b>Load</b>	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>
<b>US gph</b>	4.5	8.7	13.2	17.4	4.2	7.9	11.6	15.3
<b>L/hr</b>	17	33	50	66	16	30	44	58

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	6LTAA9.5-G3	
Configuration	Cast iron, 6 cylinder	
Aspiration	Turbocharged and after cooled	
Gross engine power output, kW/m	280	250
BMEP at set rated load, kPa	2359	2103
Bore, mm	116.5	
Stroke, mm	148	
Rated speed, rpm	1500	
Piston speed, m/s	7.4	
Compression ratio	16.6:1	
Lube oil capacity, L	28.1	
Overspeed limit, rpm	1875	
Regenerative power, kW	26	
Governor type	Electronic	
Starting voltage	24V Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	208
Maximum fuel inlet restriction, mm Hg (clean filter)	150
Maximum fuel inlet temperature, °C	70

Air	Standby rating	Prime rating
Combustion air, L/sec	298	274
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, L/sec	660	576
Exhaust gas temperature, °C	482	458
Maximum exhaust back pressure, kPa	10	

## Standard set-mounted radiator cooling

Ambient design, °C	50	
Fan load, kWm	13	
Coolant capacity (with radiator), L	55.5	
Cooling system air flow, m3/sec @ 12.7 mmH2O	7.9	
Total heat rejection, kW	35	35
Maximum cooling air flow static restriction kPa	10	

## Weights\*

	Open	Enclosed
Unit dry weight kgs	2495	3853
Unit wet weight kgs	2951	4403

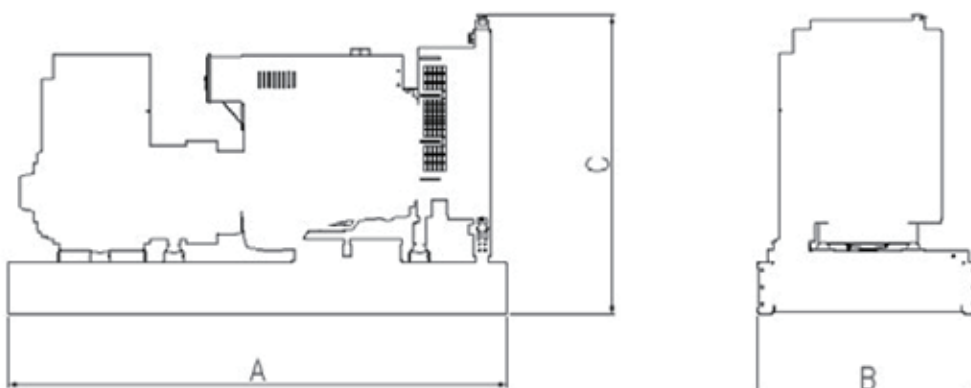
\* Weights represent a set with standard features. See outline drawing for weights of other configurations.

## Dimensions

	Length	Width	Height
Standard open set dimensions mm	2800	1100	1871
Enclosed set standard dimensions mm	4256	1424	2216

## Genset outline

### Open set



### Enclosed set



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

## Alternator data

Connection	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	150/125	S/P	HC4D	380-440V

## 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.

## Formulas for calculating full load currents:

### Three phase output

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

### Single phase output

$$\frac{\text{kW} \times \text{Single Phase Factor} \times 1000}{\text{Voltage}}$$

### See your distributor for more information.

Cummins Power Generation China

No. 118, South Quanli Road

Wuhan Economic & Technological Development Zone,

Hubei, China (430058)

Tel: 86(27) 8421 4800

Fax: 86(27) 8421 4804

Email: EastAsia.cumminsPower@cummins.com

Web: power.cummins.com

### Our energy working for you.™

©2017 Cummins Power Generation Inc. All rights reserved.

Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, AmpSentry, InPower and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.

D-6293-EN (2017)

