# **Generator set data sheet**



Model:	C300D5B
Frequency:	50 Hz
Fuel type:	Diesel

Spec sheet:		
Noise data sheet (open):		
Airflow data sheet:		
Derate data sheet (open):		
Transient data sheet:		

	Standby			Prime				
Fuel consumption	kVA (kW)				kVA (kW)			
Ratings	300 (240)				275 (220)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	4.5	8.7	13.2	17.4	4.2	7.9	11.6	15.3
L/hr	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-co	oled	
Gross engine power output, kWm	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	24 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, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	7.9	
Total heat rejection, kW	35	35
Maximum cooling air flow static restriction kPa	10	

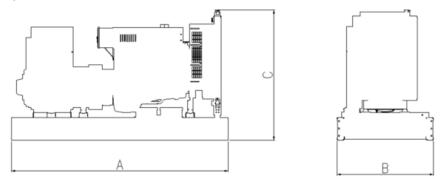
Weights*	Open	Enclosed
Unit dry weight, kgs	2495	3853
Unit wet weight, kgs	2951	4403

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

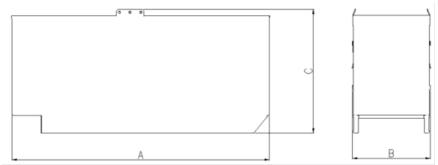
Dimensions	Length	Width	Height
Standard open set dimensions, mm	2800	1100	1871
Enclosed set standard dimensions, mm	4256	1424	2216

## **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 ⁰C	Duty	Alternator	Voltage
Wye, 3-phase	150/125	S/P	HC4D	380-440 V

### **Ratings definitions**

Emergency Standby	Limited-Time Running	Prime Power (PRP):	Base Load (Continuous)
Power (ESP):	Power (LTP):		Power (COP):
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

Single phase output

kW x 1000

kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8

Voltage

For more information contact your local Cummins distributor or visit www.auts-power.com



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