

## Generator set data sheet



**Model:** C350D5B  
**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>	

<b>Fuel consumption</b>	<b>Standby</b>				<b>Prime</b>			
	<b>kVA (kW)</b>				<b>kVA (kW)</b>			
Ratings	350 (280)				320 (256)			
Load	<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>
US gph	5.3	10	15.1	20.6	4.8	9.2	13.7	18.5
L/hr	20	38	57	78	18	35	52	70

<b>Engine</b>	<b>Standby rating</b>	<b>Prime rating</b>
Engine manufacturer	Cummins	
Engine model	6LTAA9.5-G1	
Configuration	Cast iron, 6 cylinder	
Aspiration	Turbocharged and after-cooled	
Gross engine power output, kWm	320	290
BMEP at set rated load, kPa	2696	2448
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	

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

<b>Air</b>		
Combustion air, L/sec	310	281
Maximum air cleaner restriction, kPa	6.2	

<b>Exhaust</b>	<b>Standby rating</b>	<b>Prime rating</b>
Exhaust gas flow at set rated load, L/sec	833	740
Exhaust gas temperature, °C	600	580
Maximum exhaust back pressure, kPa	8	

### 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	Total heat rejection, kW
Maximum cooling air flow static restriction kPa	10	

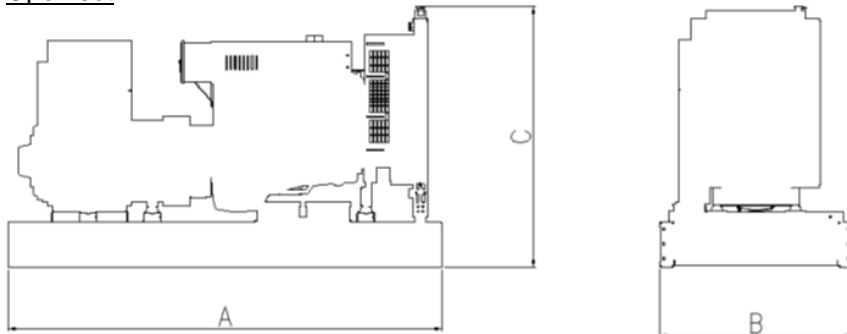
<b>Weights*</b>	<b>Open</b>	<b>Enclosed</b>
Unit dry weight, kgs	2579	3937
Unit wet weight, kgs	3035	4487

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

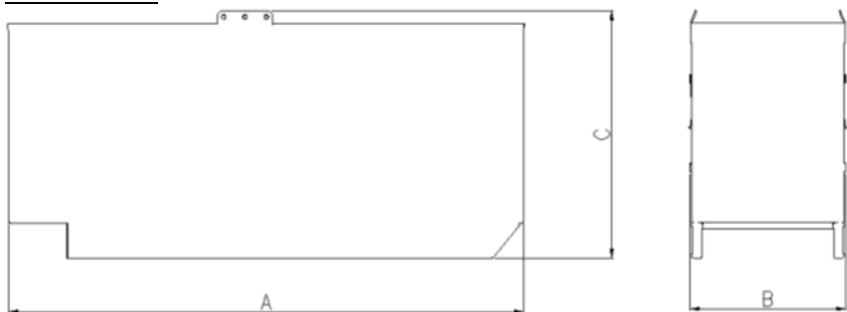
<b>Dimensions</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>
Standard open set dimensions, mm	2800	1100	1871
Enclosed set standard dimensions, mm	4256	1424	2216

### 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

<b>Connection</b>	<b>Temp rise °C</b>	<b>Duty</b>	<b>Alternator</b>	<b>Voltage</b>
Wye, 3-phase	150/125	S/P	HC4E	380-440 V

## 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

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$