

Generator set data sheet



Model: C250D5
Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:	APS-5945-EN
Noise data sheet (open/enclosed/enclosed*):	
Cooling data sheet(open/enclosed/enclosed*):	
Prototype test summary data sheet:	
Alternator data sheet:	

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	250 (200)				227 (182)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
g/kW h	220	206	202	204	218	204	201	203
L/hr	15	29	42	57	14	26	38	51

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	6CTAA8.3-G9	
Configuration	4 cycle; in-line 6 cylinder diesel	
Aspiration	Turbocharged and charge air-cooled	
Gross engine power output, kWm	231	
BMEP at set rated load, kPa	2230	
Bore, mm	114	
Stroke, mm	135	
Rated speed, rpm	1500	
Piston speed, m/s	6.8	
Compression ratio	16.7:1	
Lube oil capacity, L	24	
Overspeed limit, rpm	1725	
Regenerative power, kW	17	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	208
Maximum fuel inlet restriction, mm Hg	102
Maximum fuel inlet temperature, °C	70

Air	Standby rating	Prime rating
Combustion air, m ³ /min	15.30	
Maximum air cleaner restriction, kPa	3.7	

Exhaust		
Exhaust gas flow at set rated load, m ³ /min	35.8	
Exhaust gas temperature, °C	520	
Maximum exhaust back pressure, kPa	6.7	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, kWm	9	
Coolant capacity (with radiator), L	53.3	
Cooling system air flow, m ³ /sec @ 12.7 mm H ₂ O	4.27	
Total heat rejection, Btu/min	6084	
Maximum cooling air flow static restriction mm H ₂ O	18.3	

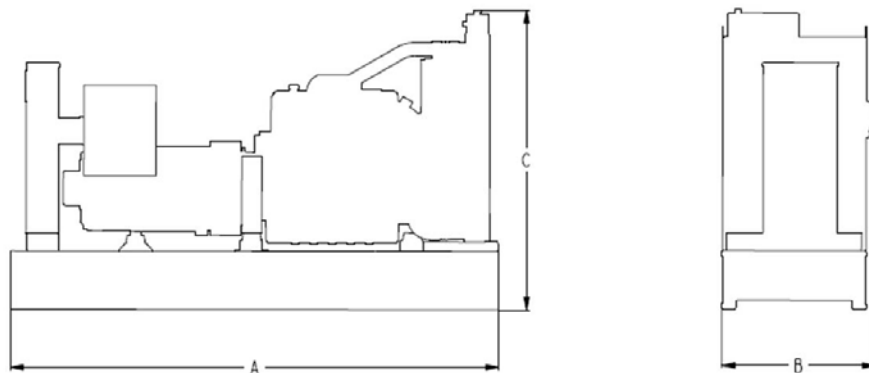
Weights*	Open	Enclosed
Unit dry weight kgs	1700	2500
Unit wet weight kgs	2100	2900

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

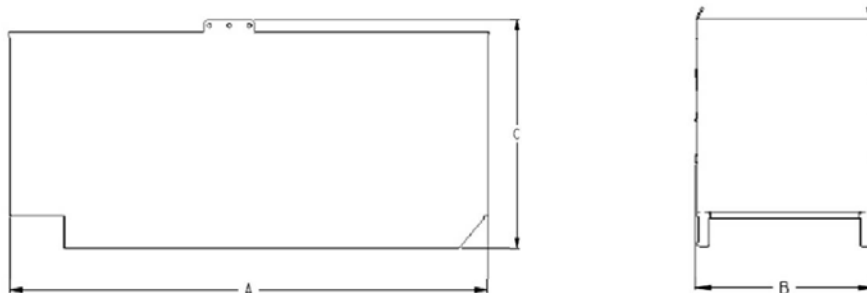
Dimensions	Length	Width	Height
Standard open set dimensions mm	2746	1100	1646
Enclosed set standard dimensions mm	3670	1100	2045

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	150/125C	S/P	UC274J	380-415V

Ratings definitions

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

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

Single phase output

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

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