

Generator set data sheet



Model: C300D5B

Frequency: 50 Hz
Fuel type: Diesel

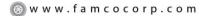
Spec sheet:	
Noise data sheet (open):	
Airflow data sheet:	
Derate data sheet (open):	
Transient data sheet:	

	Standby	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	26		
Governor type	Electronic	Electronic		
Starting voltage	24 Volts DC			

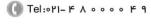
Fuel flow

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, m³/sec @ 12.7 mm H ₂ O	7.9		
Total heat rejection, kW	35	35	
Maximum cooling air flow static restriction kPa	10	·	

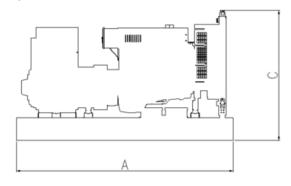
Weights*	Open	Enclosed
Unit dry weight, kgs	2495	3853
Unit wet weight, kgs	2951	4403

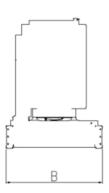
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations.

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

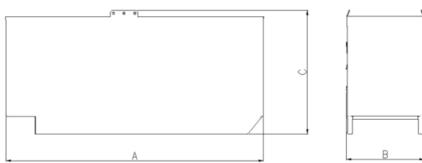
Genset outline

Open set

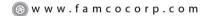




Enclosed set

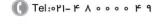


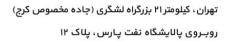
Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.





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Alternator data

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

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 Single phase output

kW x 1000 kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8 Voltage