

Model: C250 D6 Frequency: 60 Fuel Type: Diesel

» Generator set data sheet

312.5 kVA Standby



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Spec sheet:			SS8-CPGK					
Noise data sheet (Open/enclosed):			ND50-03	ND50-OS550 / ND50-CS550				
Airflow data sheet: Derate data sheet (Open/enclosed):		AF50-55	AF50-550 DD50-OS550 / DD50-CS550					
		DD50-03						
Transient data sheet:			TD50-55	0				
	Standby		Prime					
Fuel consumption	Kw (kVA)				Kw (kVA)			
Ratings	250 (31			- 1	225 (28			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	5.1	8.6	12.2	16.3	3.7	6.8	10.1	13.7
L/hr	23	39	56	74	17	31	46	63
Engine			Standby	rating		Prime r	ating	
Engine manufacturer			Cummins	S				
Engine model			QSL9 G5	5				
Configuration			4 Cycle;	4 Cycle; In-line; 6 Cylinder Diesel				
Aspiration			Turbo Charged and Charge Air Cooled					
Gross engine power output, kWm		355	355 307					
BMEP at set rated load, kPa			2668 2309					
Bore, mm			114					
Stroke, mm			145					
Rated speed, rpm			1800					
Piston speed, m/s			8.7					
Compression ratio			16.8:1					
Lube oil capacity, L			26.5					
Overspeed limit, rpm			2100 ±50					
Regenerative power, kW			47					
Governor type			Electronic					
Starting voltage			24 Volts DC					
Fuel flow								
Maximum fuel flow, L/hr			165					
Maximum fuel inlet restriction, mm Hg			203					
Maximum fuel inlet temperature (°C)		70	70					
Air								
Combustion air, m ³ /min			24.7			23.3		
Maximum air cleaner restriction, kPa			6.2					



Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/min	65.2	56.1
Exhaust gas temperature, C	580	500
Maximum exhaust back pressure, kPa	10.2	

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Standard set-mounted radiator cooling

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Ambient design, °C	50	50	
Fan load, KW _m	11	11	
Coolant capacity (with radiator), L	15	15	
Cooling system air flow, m3/min @ 12.7mmH2O	9.47	9.47	
Total heat rejection, BTU/min	12240	10190	
Maximum cooling air flow static restriction mmH2O	19.1		

Open set derating factors kVA (kW)

Note: Standard open genset options running at 400V, 150m above sea level. For enclosed product derates, please refer to datasheet - DD50-CS550.

	27°C	40°C	45°C	50°C	55°C
Standby	312.5 (250)	312.5 (250)	303.1 (242.5)	293.8 (235)	284.4 (227.5)
Prime	281.3 (225)	281.3 (225)	275.6 (220.5)	267 (213.6)	258.5 (206.8)

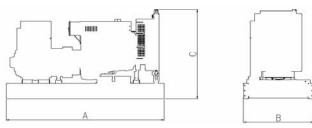
Weights*	Open	Enclosed
Unit dry weight kgs	2518	4095
Unit wet weight kgs	2570	4734

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

Dimensions	Length	Width	Height
Standard open set dimensions	3135	1100	1928
Enclosed set standard dimensions	4254	1424	2215

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

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
B252	Wye, 3 Phase	125/105	S/P	HC4D	416-480V
B683	Wye, 3 Phase	150/125C	S/P	UCD274K	440-480

Ratings definitions

Natings demittions						
Emergency Standby Power (ESP)	Limited-Time running Power	Prime Power (PRP):	Base Load (Continuous) Power			
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) 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

kWx1000 Voltagex1. 73x0.8 kWxSingleP haseFactor x1000 Voltage

See your distributor for more information.

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