Model: C250 D5

Frequency: 50 Fuel Type: Diesel

» Generator set data sheet 250kVA Standby @ 50Hz



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Spec sheet:	SS7-CPGK
Noise data sheet (Open/enclosed):	ND50-OS550 / ND50-CS550
Airflow data sheet:	AF50-550
Derate data sheet (Open/enclosed):	DD50-OS550 / DD50-CS550
Transient data sheet:	TD50-550

	Standb	Standby			Prime	Prime kVA (kW)		
Fuel consumption	kVA (kV	kVA (kW)		kVA (kV				
Ratings	250 (200	250 (200)		228 (18	228 (182)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	3.3	6.2	9.2	12.5	3.0	5.9	8.5	11.3
L/hr	15	28	42	57	14	27	39	51

Engine	Standby rating	Prime rating		
Engine manufacturer	Cummins	<u> </u>		
Engine model	6CTAA8.3G2			
Configuration	4 Cycle; In-line; 6 Cylinder	r Diesel		
Aspiration	Turbo Charged and Charg	ge Air Cooled		
Gross engine power output, kWm	231	205		
BMEP at set rated load, kPa	2230	1984		
Bore, mm	114			
Stroke, mm	135	135		
Rated speed, rpm	1500	1500		
Piston speed, m/s	6	6		
Compression ratio	16.7:1	16.7:1		
Lube oil capacity, L	18.9			
Overspeed limit, rpm	1800 ±50			
Regenerative power, kW	17	17		
Governor type	Electronic			
Starting voltage	24 Volts DC			

Fuel flow

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Maximum fuel flow, L/hr	208
Maximum fuel inlet restriction, mm Hg	102
Maximum fuel inlet temperature (°C)	60

Air

Alf		
Combustion air, m³/min	15.30	14.00
Maximum air cleaner restriction, kPa	6.2	

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Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/min	40.9	35.8
Exhaust gas temperature, C	565	548
Maximum exhaust back pressure, kPa	10.2	
Standard set-mounted radiator cooling Ambient design, °C	45	
Fan load, KW _m	9	
Coolant capacity (with radiator), L	12	
Cooling system air flow, m3/sec @ 12.7mmH2O	5.85	
Total heat rejection, BTU/min	6722	5759

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Open set derating factors kVA (kW)

Maximum cooling air flow static restriction mmH2O

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	250 (200)	250 (200)	242.5 (194)	235 (188)	200 (160)
Prime	227 (181.6)	227 (181.6)	220.5 (176.4)	213.6 (170.9)	181.9 (145.5)

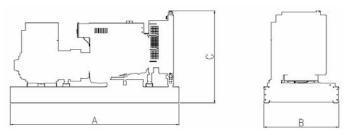
Weights*	Open	Enclosed
Unit dry weight kgs	1940	2700
Unit wet weight kgs	2000	3589

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

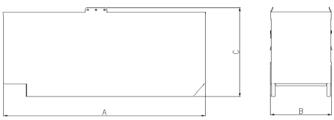
Dimensions	Length	Width	Height
Standard open set dimensions	2686	1300	1547
Enclosed set standard dimensions	3581	1360	2170

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
B680	Wye, 3 Phase	150/125C	S/P	UC274J	380-415V
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Ratings definitions

Emergency Standby Power (ESP)	Limited-Time running Power	Prime Power (PRP):	Base Load (Continuous) Power
Emergency Standby Power (ESP) 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	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.	Prime Power (PRP): 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.	Base Load (Continuous) Power 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.
5514.		5514.	

Formulas for calculating full load currents:

Three phase output Single phase output

kW x 1000 kW x SinglePhaseFactorx 1000 Voltage x 1.73 x 0.8 Voltage

See your distributor for more information.

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