Model: C220 D5e (QSB7G5)

Frequency: 50 Fuel Type: Diesel

» Generator set data sheet



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Spec sheet:	SS5-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

	Standby	Standby			Prime	Prime kVA (kW) 200 (160)		
Fuel consumption	kVA (kV	kVA (kW)		kVA (k\				
Ratings	220 (17	220 (176)		200 (16				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	3.6	6.4	8.7	10.7	3.3	6.0	8.1	10.0
L/hr	16	29	39	49	15	28	37	46

Engine	Standby rating	Prime rating		
Engine manufacturer	Cummins	<u> </u>		
Engine model	QSB7G5			
Configuration	4 Cycle; In-line; 6 Cylinder	4 Cycle; In-line; 6 Cylinder Diesel		
Aspiration	Turbo Charged and Charg	e Air Cooled		
Gross engine power output, kWm	213	182		
BMEP at set rated load, kPa	2537	2172		
Bore, mm	107	·		
Stroke, mm	124	124		
Rated speed, rpm	1500	1500		
Piston speed, m/s	6.2	6.2		
Compression ratio	17.3:1	17.3:1		
Lube oil capacity, L	15.1-17.4			
Overspeed limit, rpm	1500+15%			
Regenerative power, kW	14	14		
Governor type	Electronic	Electronic		
Starting voltage	12V Volts DC			

Fuel flow

Maximum fuel flow, L/hr	106
Maximum fuel inlet restriction, mm Hg	127-254
Maximum fuel inlet temperature (°C)	71

Δir

All		
Combustion air, m³/min	12.72	12.30
Maximum air cleaner restriction, kPa	3.7-6.2	



Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/min	35.82	34.14
Exhaust gas temperature, °C	561	544
Maximum exhaust back pressure, kPa	10.2	·
Standard set-mounted radiator cooling Ambient design, °C	50	
Fan load, KW _m	6.8	
Coolant capacity (with radiator), L	30.2	
Cooling system air flow, m3/sec @ 12.7mmH2O	5.91	
Total heat rejection, BTU/min	6516	5825

8.12

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℃	40℃	45℃	50℃	55℃
Standby	220 (176)	212 (169.6)	205.6 (164.5)	199.3 (159.4)	192.9 (154.3)
Prime	200 (160)	192.8 (154.2)	187 (149.6)	181.1 (144.9)	174 (139.2)

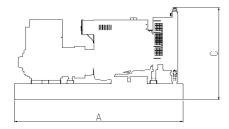
Weights*	Open	Enclosed
Unit dry weight kgs	1718	2698
Unit wet weight kgs	2321	3301

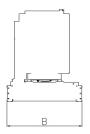
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions	Length	Width	Height
Standard open set dimensions	2656	1100	1658
Enclosed set standard dimensions	3900	1100	2246

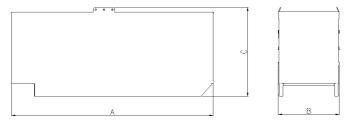
Genset outline

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
B681-2	Wye, 3 Phase	163/125	S/P	UCI274H	380-415V

Ratings definitions

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	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 kWxSingleP haseFactor x1000 Voltagex1. 73x0.8 Voltage

See your distributor for more information.

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