

Model: C220 D5e (QSB7G5)

Frequency: 50 Fuel Type: Diesel

## » Generator set data sheet



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Spec sheet:	SS22-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		
Fuel consumption	kVA (kW	kVA (kW)			kVA (kV	/)		
Ratings	220 (176	220 (176)			200 (160)			
Load	1/4	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	16.40	29.29	39.38	48.83	15.15	27.51	36.78	45.60

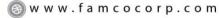
Engine	Standby rating	Prime rating	
Engine manufacturer	Cummins		
Engine model	QSB7G5		
Configuration	4 Cycle; In-line; 6 Cylind	er Diesel	
Aspiration	Turbo Charged and Cha	rge Air Cooled	
Gross engine power output, kWm	213	182	
BMEP at set rated load, kPa	2537	2172	
Bore, mm	107	•	
Stroke, mm	124		
Rated speed, rpm	1500	1500	
Piston speed, m/s	6.2	6.2	
Compression ratio	17.3:1		
Lube oil capacity, L	15.1-17.4		
Overspeed limit, rpm	1500+15%		
Regenerative power, kW	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 (℃)	71
•	

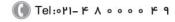
# Air

Combustion air, m <sup>3</sup> /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, m <sup>3</sup> /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 <sub>m</sub>	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	
Maximum cooling air flow static restriction mmH2O	8.12	•	

# 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℃	40℃	45℃	50°C	55 °C
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)

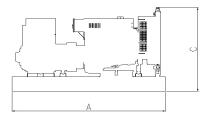
Weights*	Open	Enclosed
Unit dry weight kgs	1544	2698
Unit wet weight kgs	1670	3301

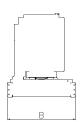
 $<sup>^{\</sup>star}$  Weights represent a set with standard features. See outline drawing for weights of other configurations

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

## **Genset outline**

#### Open set



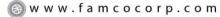


#### **Enclosed set**



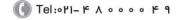


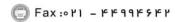
ne drawing for an exact representation of this model.













### **Alternator data**

Feature code	Connection <sup>1</sup>	Temp rise degrees C	Duty <sup>2</sup>	Alternator	Voltage
B681-2	Wye, 3 Phase	163/125	S/P	UCI274H	380-415V
B726-3	Wye, 3 Phase	125/105	S/P	UCI274J	380-440V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

**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.	varying electrical load for unlimited hours. Prime 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.

# Formulas for calculating full load currents:

Three phase output Single phase output

kWx1000 kWxSinglePhaseFactorx1000

Voltagex1. 73x0.8 Voltage

