Model: C220 D5e (QSB7G5)

Frequency: 50
Fuel Type: Diesel

» Generator set data sheet



Our energy working for you.™

Maximum air cleaner restriction, kPa

Spec sheet:			SS22-CPGK					
Noise data sheet (Open/enclosed):			ND50-09	ND50-OS550 / ND50-CS550				
Airflow data sheet: Derate data sheet (Open/enclosed):			AF50-55	AF50-550				
			DD50-OS550 / DD50-CS550					
Transient data sheet:		TD50-55	0					
	Standby	,	•		Prime			
Fuel consumption kvA (kw)		kVA (kW)						
Ratings	220 (176)				200 (160)			
Load	1/4	1/2	3/4	Full 1/4		1/2		
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
	ļ			I				I
Engine			Standby	rating		Prime ra	iting	
Engine manufacturer			Cummins	S				
Engine model			QSB7G5	QSB7G5				
Configuration			4 Cycle; In-line; 6 Cylinder Diesel					
Aspiration			Turbo Charged and Charge 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					
Piston speed, m/s			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					
Starting voltage			12V Volts DC					
Fuel flow			1					
Maximum fuel flow, L/hr			106					
Maximum fuel inlet restriction, mm Hg			127-254					
Maximum fuel inlet temperature (°C)			71					
Air								
Combustion air, m³/min			12.72 12.30					
			<u> </u>					

3.7-6.2



Exhaust	Standby rating	Prime rating		
Exhaust gas flow at set rated load, m ³ /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	6.8		
Coolant capacity (with radiator), L	30.2			
Cooling system air flow, m3/sec @ 12.7mmH2O	5.91			
Total heat rejection, BTU/min	at 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 <i>°</i> C	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)

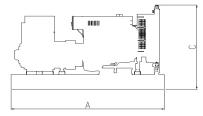
Weights*	Open	Enclosed
Unit dry weight kgs	1544	2698
Unit wet weight kgs	1670	3301

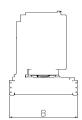
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations

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
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

 $\frac{\text{kWx1000}}{\text{Voltagex1. 73x0.8}} \frac{\text{kWxSingleP haseFactorx1000}}{\text{Voltage}}$

See your distributor for more information.

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