

## » Generator set data sheet

Model: C220 D5e (QSB7G5) Frequency: 50 Fuel Type: Diesel

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				Prime	Prime		
Fuel consumption	kVA (kW	kVA (kW)			kVA (kW)			
Ratings	220 (176	220 (176)			200 (160	200 (160)		
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	16.4	29.3	39.4	48.8	15.2	27.5	36.8	45.6

Engine	Standby Rating	Prime Rating	
Engine manufacturer	Cummins		
Engine model	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			
Maximum fuel flow, L/hr	106		
Maximum fuel inlet restriction, mm Hg	127-254		
Maximum fuel inlet temperature (°C)	71		

Air	Standby Rating	Prime Rating	
Combustion air, m <sup>3</sup> /min	12.72	12.30	
Maximum air cleaner restriction, kPa	3.7-6.2		
Exhaust	I		
	35.8	34.1	
Exhaust gas flow at set rated load, m <sup>3</sup> /min Exhaust gas temperature, °C	35.8 561	34.1 544	

Standard set-mounted radiator cooling			
Ambient design, °C	50		
Fan Ioad, 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		

### Mainhta\*

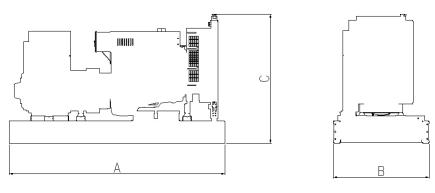
Weights*	Open	Enclosed
Unit dry weight kgs	1544	2698
Unit wet weight kgs	1670	3301

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

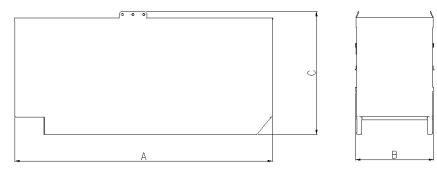
Dimensions	Length	Width	Height
Standard open set dimensions	2656	1100	1658
Enclosed set standard dimensions	3900	1100	2072

# **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**

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

## **Ratings definitions**

Emergency Standby	Limited-Time running	Prime Power (PRP)	Base Load (Continuous)
Power (ESP)	Power (LTP):		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.	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 kWxSinglePhaseFactorx1000 Voltage

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