

» Generator set data sheet

Model: C220 D5e (QSB7G5)

Frequency: 50 Fuel Type: Diesel

Spec sheet: Noise data sheet (Open/enclosed): Airflow data sheet: Derate data sheet (Open/enclosed):			SS22-CPGK													
			ND50-OS550 / ND50-CS550 AF50-550 DD50-OS550 / DD50-CS550													
								Transient data sheet:			TD50-55	50				
									Standby				Prime			
Fuel consumption	kVA (kV				kVA (kW)											
Ratings	220 (176				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 R	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													

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Maximum fuel inlet temperature (°C)

Air	Standby Rating	Prime Rating
Combustion air, m ³ /min	12.72	12.30
Maximum air cleaner restriction, kPa	3.7-6.2	•
Exhaust	1	
Exhaust gas flow at set rated load, m³/min	35.8	34.1
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
Maximum cooling air flow static restriction mmH2O	8.12	•

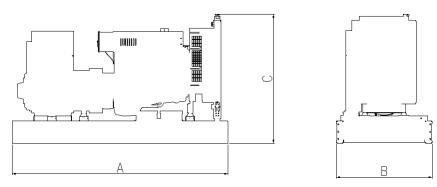
Weights*	Open	Enclosed
Unit dry weight kgs	1544	2698
Unit wet weight kgs	1670	3301

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

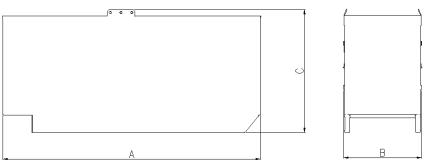
Dimensions	Length	Width	Height
Standard open set dimensions	2656	1100	1658
Enclosed set standard dimensions	3900	1100	2072

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 ¹	Temp rise °C	Duty ²	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 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.	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 kWxSinglePhaseFactorx1000 Voltage

Voltagex1.73x0.8

See your distributor for more information.

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