

» Generator set data sheet

Maximum fuel inlet temperature (°C)

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-CI	SS22-CPGK ND50-OS550 / ND50-CS550				
			ND50-O					
			AF50-550					
			DD50-OS550 / DD50-CS550					
Transient data sheet:		TD50-550						
			•		ī			
	Standby			Prime				
Fuel consumption	kVA (kV		kVA (kW)					
Ratings	220 (176	5)			200 (160	0)		
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			1					
Maximum fuel flow, L/hr			106					
Maximum fuel inlet restriction, mm Hg			127-254	127-254				

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Air	Standby Rating	Prime Rating
Combustion air, m³/min	12.72	12.30
Maximum air cleaner restriction, kPa	3.7-6.2	<u>.</u>
	1	
Exhaust		
Exhaust gas flow at set rated load, m³/min	35.8	34.1
	=0.4	544
Exhaust gas temperature, °C	561	344
Exhaust gas temperature, *C Maximum exhaust back pressure, kPa	10.2	344
		244
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling	10.2	244
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling Ambient design, *C	10.2	244
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling Ambient design, *C Fan load, KW _m	10.2 50 6.8	244
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling Ambient design, °C Fan load, KW _m Coolant capacity (with radiator), L	10.2 50 6.8 30.2	5825

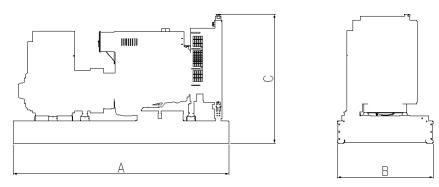
Weights*	Open	Enclosed
Unit dry weight kgs	1544	2698
Unit wet weight kgs	1670	3301

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

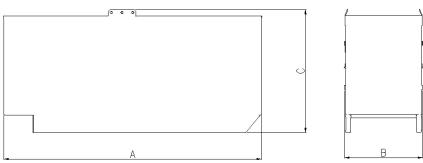
Dimensions	Length	Width	Height
Standard open set dimensions	2656	1100	1658
Enclosed set standard dimensions	3900	1100	2072

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

Voltagex1.73x0.8 Voltage