Generator set data sheet



Model:	C220 D5e
Frequency:	50 Hz
Fuel type:	Diesel

	Standby	Standby			Prime			
Fuel consumption	kVA (kV	kVA (kWe)			kVA (kW	e)		
Ratings	220 (176	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 rating	
Engine manufacturer	Cummins		
Engine model	QSB7-G5		
Configuration	4 cycle; in-line; 6 cylind	er diesel	
Aspiration	Turbocharged and char	nge 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		
Compression ratio	17.2:1		
Lube oil capacity, L	19		
Overspeed limit, rpm	1800 ± 50		
Regenerative power, kW	14		
Governor type	Electronic		
Starting voltage	12 Volts DC		

Fuel flow

Maximum fuel flow, L/hr	106
Maximum fuel inlet restriction, mm Hg	254
Maximum fuel inlet temperature, °C	71

Air	Standby rating	Prime rating
Combustion air, m ³ /min	12.72	12.30
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load, m ³ /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 – Open Genset @ 12.7 mm H2O	50	
Fan Ioad, kWm	6.8	
Coolant capacity (with radiator), L	30.2	
Cooling system air flow, m ³ /sec @ 12.7 mm H ₂ O	5.91	
Total heat rejection, Btu/min	6516	5825
Maximum cooling air flow static restriction, mm H ₂ O	8.12	

Weights*	Open	Enclosed
Unit dry weight, kgs	2070	2984 / 2734**
Unit wet weight, kgs	2117	3031 / 2781**

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

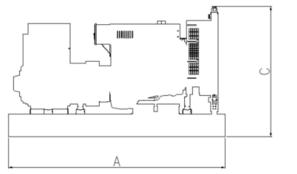
**Note: Weights are for Chassis lifting arrangement option

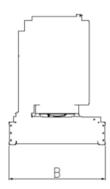
Dimensions	Length	Width	Height
Standard open set dimensions, mm	2656	1130	1822
Enclosed set standard dimensions, mm	4209 / 3690**	1130 / 1130**	2227 / 2100**

**Note: Dimensions are for Chassis lifting arrangement option

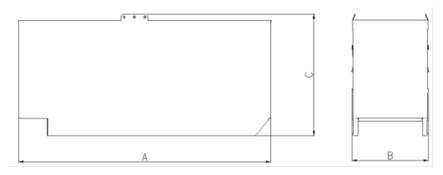
Genset outline

Open set





Enclosed set



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

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Alternator data

Connection	Temp rise ºC	Duty	Alternator	Voltage
Wye, 3-phase	163/125	S/P	UCI274H	380-415 V
Wye, 3-phase	125/105	S/P	UCI274J	380-440 V

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 and DIN 6271.	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 and DIN 6271.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789 and DIN 6271.

Formulas for calculating full load currents:

Three phase output

Single phase output

kW x 1000

kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8

Voltage

For more information contact your local Cummins distributor or visit power.cummins.com



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