

Generator set data sheet

Model:	C220 D5
Frequency:	50
Fuel type:	Diesel

Spec sheet:	
Noise data sheet (Open/enclosed):	
Airflow data sheet:	
Derate data sheet (Open/enclosed):	
Transient data sheet:	

Standby			Prime	Prime				
Fuel consumption	kVA (k	kVA (kW)			kVA (kW)			
Ratings	220 (17	6)			200 (16	0)		
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
g/kW h	N/A	N/A	N/A	203	229	206	202	203
L/hr	N/A	N/A	N/A	50	13	23	34	45

Engine	Standby Rating	Prime Rating
Engine manufacturer	Cummins	
Engine model	6CTAA8.3-G7	
Configuration	4 cycle; in-line 6 cylinde	er diesel
Aspiration	Turbocharged and char	rge air cooled
Gross engine power output, kWm	203	183
BMEP at set rated load, kPa	2225.5	N/A
Bore, mm	114	
Stroke, mm	135	
Rated speed, rpm	1500	
Piston speed, m/s	6.8	
Compression ratio	16.7:1	
Lube oil capacity, L	24	
Overspeed limit, rpm	1725	
Regenerative power, kW	17	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow

Maximum fuel flow, L/hr	208
Maximum fuel inlet restriction, mm Hg	122
Maximum fuel inlet temperature (°C)	70

©2014 | Cummins Power Generation Inc. | All rights reserved | Specifications subject to change without notice | Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. APD-5946a-EN (7/14)

Air	Standby Rating	Prime Rating
Combustion air, m³/min	12.5	11.6
Maximum air cleaner restriction, kPa	3.7	

Exhaust

Exhaust gas flow at set rated load, m ³ /min	32.2	29.3
Exhaust gas temperature, °C	493	480
Maximum exhaust back pressure, kPa	6.7	

Standard set-mounted radiator cooling

	-	
Ambient design, °C	50	
Fan Ioad, kWm	9	
Coolant capacity (with radiator), L	12.3	
Cooling system air flow, m ³ /sec @ 12.7 mmH ₂ O	4.27	
Total heat rejection, Btu/min	6084	N/A
Maximum cooling air flow static restriction mm H ₂ O	18.3	

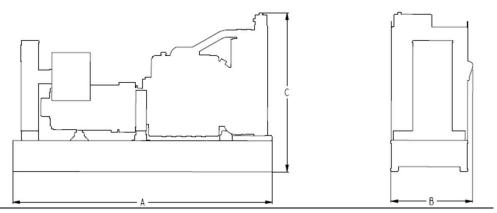
Weights*	Open	Enclosed
Unit dry weight kgs	2500	4200
Unit wet weight kas	2907	4607

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

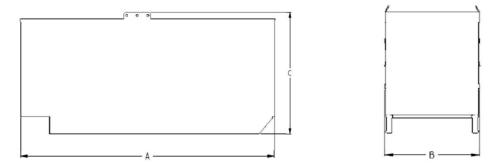
Dimensions	Length (A)	Width (B)	Height (C)
Standard open set dimensions mm	2746	1100	1646
Enclosed set standard dimensions mm	3670	1100	2045

Genset outline

<u>Open set</u>



Enclosed set



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

©2014 | Cummins Power Generation Inc. | All rights reserved | Specifications subject to change without notice | Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. APD-5946a-EN (7/14)

Alternator data

Connection ¹	Temp rise °C	Duty ²	Alternator	Voltage	
Wye, 3-phase	150/40	S/P	UC274H	380-415V	

Ratings definitions

Emergency standby power	Limited-time running power	Prime power (PRP):	Base load (continuous)
(ESP):	(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) is 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

kW x 1000 Voltage x 1.73 x 0.8 kW x SinglePhaseFactor x 1000 Voltage

Cummins Power Generation

North America

1400 73rd Ave. NE, Minneapolis MN 55432, USA Phone: 1-763-574 5000 Fax: 1-763-574 5298

Europe, CIS, Middle East and Africa

Manston Park Columbus Ave. Manston Ramsgate, Kent CT 12 5BF United Kingdom Phone: 44-1843-255000 Fax: 44-1843-255902

China

India

35A/1/2, Erandawana,

Fax: 91-020-6602 8090

Pune 411 038, India Phone: 91-020-3024 8600

NO.2, Rongchang East Street, Beijing Economic and Technological Development Area Beijing, P.R. China, Post code: 100176 Phone: 8610 5902 3000 Fax: 8610 5902 3199

Asia Pacific

10 Toh Guan Road, #07-01, TT International Tradepark Singapore 608838 Phone: 65-6417 2388 Fax: 65-6417 2399

©2014 | Cummins Power Generation Inc. | All rights reserved | Specifications subject to change without notice | Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand and "Cur energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. APD-5946a-EN (7/14)

