Model: C220 D5 Frequency: 50 Fuel Type: Diesel

» Generator set data sheet 220 kVA Standby



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Maximum air cleaner restriction, mm H₂O

Standby		by			Prime			
Fuel consumption	kW (kVA) 176 (220)				kW (kVA)			
Ratings				160 (200)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	3.5	6.3	9.7	13.2	3.2	6.1	9.0	11.9
L/hr	13	24	37	50	12	23	34	45
Engine			Standl	by rating		Prime	rating	
Engine manufacturer			Cummi	ins		•		
Engine model			6CTAA	.8.3G1				
Configuration			4 Cycle; In-line; 6 Cylinder Diesel					
Aspiration				Turbo Charged and Charge Air Cooled				
Gross engine power output, kWm			203	203 183				
BMEP at set rated load, kPa			1966 1768					
Bore, mm			114					
Stroke, mm			135					
Rated speed, rpm			1500					
Piston speed, m/s			6.8					
Compression ratio			16.8:1					
Lube oil capacity, L			18.9					
Overspeed limit, rpm			1800 ±	50				
Regenerative power, kWm			17					
Governor type			Electronic					
Starting voltage			12 Volts DC					
Fuel flow			1					
Maximum fuel flow, L/hr			208					
Maximum fuel inlet restriction, mm Hg			102					
Maximum fuel inlet temperature (°C)			60					
Air								
Combustion air, m ³ /min			13.2			12		
Maximum air alganar restriction, mm U (`		COF			1		

635

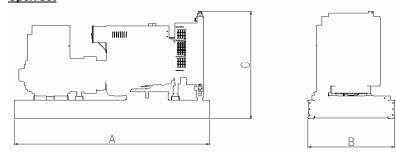
Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/min	35.6	31.9
Exhaust gas temperature, °C	571	553
Maximum exhaust back pressure, mmHg	75	·
Standard set-mounted radiator		
Ambient design, °C	40	
Fan load, KW _m	9	
Coolant capacity (with radiator), L	26	
Cooling system air flow, m³/min @ 12.7mmH ₂ O	222	
Total heat rejection, BTU/min	6005	5380
Maximum cooling air flow static restriction mmH ₂ O	12.7	<u>.</u>
Weights*	Open	Enclosed
Unit dry weight kgs	1835	3320
Unit wet weight kgs	1890	3670

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

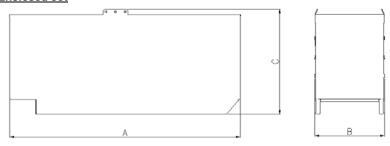
Dimensions	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	2541	1000	1737
Enclosed set standard dimensions, mm	3700	1600	2100

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

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
-	Wye, 3 Phase	163/125	S/P	UC274H	380-415V

Ratings definitions

Standby:	Limited Time Running:	Prime (unlimited running time):	Base Load (Continuous):
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.	is in accordance with ISO 8528.	to varying electrical load for unlimited hours. Prime Power is in accordance with ISO 8528. Ten percent overload capability is available in accordance with	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous power in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Notes:

- Limited single phase capability is available from some three phase rated configurations. To obtain single phase rating, multiply the three phase kW rating by the single phase factor. All single phase ratings are at unity power factor.
- 2. Standby (S) and Prime (P) ratings.

Formulas for calculating full load currents:

Three phase output Single phase output

 kW x 1000
 kW x 1000

 Voltage x 1.732 x 0.8
 Voltage

See your distributor for more information.

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