Model: C100 D5 Frequency: 50 Fuel Type: Diesel

» Generator set data sheet 100 kVA Standby



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Maximum air cleaner restriction, mm H₂O

	Stand	hv			Prime			
Fuel consumption		kW (kVA)		kw (kvA) 72 (90)				
Ratings		80 (100)						
Load	1/4	1/2	3/4	Full	` ,			Full
US gph	1.6	3.2	4.8	6.3	1.6	2.9	4.2	5.8
L/hr	6	12	18	24	6	11	16	22
Engine		Standl	Standby rating Prime rating					
Engine manufacturer			Cummi	ns		•		
Engine model			4BTA3	4BTA3.9G4				
Configuration				e; In-line; 4				
Aspiration			Turbo (Charged a	nd Afterco	ooled		
Gross engine power output, kWm			97	97 87				
BMEP at set rated load, kPa			1652	1652 1485				
Bore, mm				102				
Stroke, mm			120					
Rated speed, rpm			1500					
Piston speed, m/s			6	1				
Compression ratio			16.5:1					
Lube oil capacity, L		9.5						
	Overspeed limit, rpm		1800±50					
Regenerative power, kWm			8.2					
Governor type			Electronic					
Starting voltage			12 Volts DC					
Fuel flow								
Maximum fuel flow, L/hr		30						
Maximum fuel inlet restriction, mm Hg			102					
Maximum fuel inlet temperature (°C)		60						
Air								
Combustion air, m ³ /min			6			5.7		
Mandagona ala da anana antida Cara anan	11.0					•		

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Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/min	16.4	14.8
Exhaust gas temperature, °C	585	565
Maximum exhaust back pressure, mmHg	76	

Standard set-mounted radiator cooling

_				
Ambient design, °C	40	40		
Fan load, KW _m	2			
Coolant capacity (with radiator), L	21	21		
Cooling system air flow, m³/min @ 12.7mmH ₂ O	120			
Total heat rejection, BTU/min	2735	2360		
Maximum cooling air flow static restriction mmH ₂ O	12.7			

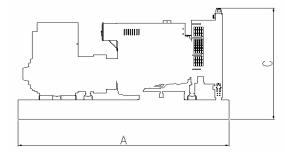
Weights*	Open	Enclosed
Unit dry weight kgs	1195	1800
Unit wet weight kgs	1405	2010

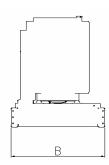
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	1920	1050	1438
Enclosed set standard dimensions, mm	2710	1060	1853

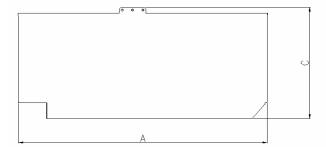
Genset outline

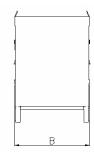
Open set





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		Temp rise degrees C	Duty ²	Alternator	Voltage
-	Wye, 3 Phase	150/125C	S/P	UC274C	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.	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power 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 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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