Model: C90 D5 Frequency: 50 Fuel Type: Diesel

» Generator set data sheet 90 kVA Standby



Our energy working for you.™

	Standby			Prime				
Fuel consumption	kW (kVA)			kW (kVA)				
Ratings	72 (90)				64 (80)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	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			Standk	by rating		Prime	rating	
Engine manufacturer				Cummins				
Engine model			4BTA3	4BTA3.9G4				
Configuration				4 Cycle; In-line; 4 Cylinder Diesel				
Aspiration				Turbo Charged and Aftercooled				
Gross engine power output, kWm			97	97 87				
BMEP at set rated load, kPa			1652					
Bore, mm				102				
Stroke, mm			120					
Rated speed, rpm			1500					
Piston speed, m/s			6	<u> 1</u> -				
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					
Maximum air cleaner restriction, mm H ₂ O			635					

Exhaust	Standby rati	ng Prime rating		
Exhaust gas flow at set rated load, m ³ /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			
Fan load, KW _m	2			
Coolant capacity (with radiator), L	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	1165	1770		

^{*} 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

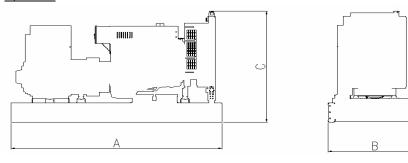
1380

1985

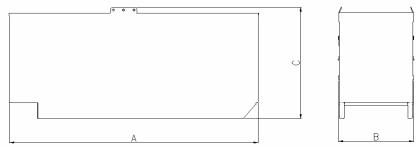
Genset outline

Unit wet weight kgs

Open set



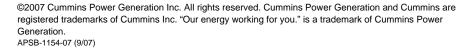
Enclosed set



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

Our energy working for you. TM

www.cumminspower.com





Alternator data

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
-	Wye, 3 Phase	163/125C	S/P	UC224G	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.	to a constant electrical load for limited hours. Limited Time Running Power is in accordance with ISO 8528.	unlimited hours. Prime Power is	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

k<u>W x 1000</u> kW x 1000 Voltage x 1.732 x 0.8 Voltage

See your distributor for more information.

Cummins Power Generation

Asia Pacific 10 Toh Guan Road #07-01 TT International Tradepark Tel: (65) 6417 2388 Fax: (65) 6417 2399

E-Mail: cpg.apmktg@cummins.com

Our energy working for you. TM

www.cumminspower.com

