

» Generator set data sheet

Maximum fuel inlet temperature (°C)

Model: C90 D5 (6B)

Frequency: 50
Fuel Type: Diesel

Spec sheet: Noise data sheet (Open/enclosed): Airflow data sheet: Derate data sheet (Open/enclosed):			SS28-CF	SS28-CPGK ND50-CS550				
			ND50-CS					
			AF50-550 TBD					
								Transient data sheet:
	1							
	•			Prime				
Fuel consumption				kVA (kW)				
Ratings	90 (72)			•	82 (65.6)		•
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	1.4	2.5	3.8	5.2	1.3	2.3	3.4	4.7
L/hr	6.2	11.5	17.1	23.6	5.7	10.3	15.4	21.2
Engine		Standby	Standby Rating Prime Rating		ating			
Engine manufacturer		Cummins						
Engine model		6BTA5.9	6BTA5.9 G5					
Configuration		Inline 6-0	Inline 6-Cylinder Diesel					
Aspiration		Turbocha	Turbocharged and After Cooled					
Gross engine power output, kWm		102	102 93					
BMEP at set rated load, kPa		1386 1265						
Bore, mm			102	102				
Stroke, mm			120	120				
Rated speed, rpm			1500	1500				
Piston speed, m/s			6	6				
Compression ratio			17.6:1	17.6:1				
Lube oil capacity, L			16.4	16.4				
Overspeed limit, rpm			1800	1800				
Regenerative power, kW			6.545454	6.545454545				
Governor type			Electroni	Electronic				
Starting voltage			12V Volt	12V Volts DC				
Fuel flow								
Maximum fuel flow, L/hr			45	45				
Maximum fuel inlet restriction, mm Hg			8					

71

Air	Standby Rating	Prime Rating	
Combustion air, m³/min	131.00	120.00	
Maximum air cleaner restriction, kPa	6		
Exhaust			
Exhaust gas flow at set rated load, m³/min	21.4	19.5	
Exhaust gas temperature, °C	540	533	
Maximum exhaust back pressure, kPa	10.5	•	
Standard set-mounted radiator cooling Ambient design, °C	54		
Fan load, KW _m	5.60992		
Coolant capacity (with radiator), L	19.75		
Cooling system air flow, m3/sec @ 12.7mmH2O	3.44		
Total heat rejection, BTU/min	9259 8419		
Maximum cooling air flow static restriction mmH2O	12.7	•	
Weights*	Open	Enclosed	

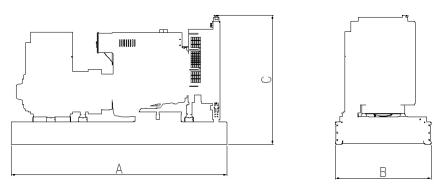
Weights*	Open	Enclosed
Unit dry weight kgs	1244	1944
Unit wet weight kgs	1555	2255

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

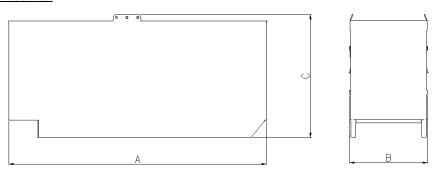
Dimensions	Length	Width	Height
Standard open set dimensions	2268	1094	1576
Enclosed set standard dimensions	3151	1142	1714

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.

Alternator data

Connection ¹	Temp rise °C	Duty ²	Alternator	Voltage	
Wye -3 phase	163/125	S/P	UCI224G	380-415	

Ratings definitions

Emergency Standby Power (ESP)	Limited-Time running Power (LTP):	Prime Power (PRP)	Base Load (Continuous) 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) 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

kWx1000 kWxSinglePhaseFactorx1000

Voltagex1.73x0.8

Voltage

See your distributor for more information.

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