

» 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-C						
			AF50-55	AF50-550 TBD					
			TBD						
Transient data sheet:		TD50-550							
			•						
Standby		Prime							
Fuel consumption	kVA (kW)			kVA (kW)					
Ratings	90 (72)				82 (65.6	5)			
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 R	Prime Rating		
Engine manufacturer			Cummin	Cummins					
Engine model			6BTA5.9	6BTA5.9 G5					
Configuration		Inline 6-0	Inline 6-Cylinder Diesel						
Aspiration			Turboch	Turbocharged and After Cooled					
Gross engine power output, kWm		102	102 93						
BMEP at set rated load, kPa			1386 1265						
Bore, mm			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	8					

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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
	= 40	533
Exhaust gas temperature, °C	540	533
Exhaust gas temperature, [°] C Maximum exhaust back pressure, kPa	10.5	
0 1 ,		555
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling	10.5	555
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling Ambient design, *C	10.5 54	555
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling Ambient design, C Fan load, KW _m	10.5 54 5.60992	555
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling Ambient design, *C Fan load, KW _m Coolant capacity (with radiator), L	54 5.60992 19.75	8419

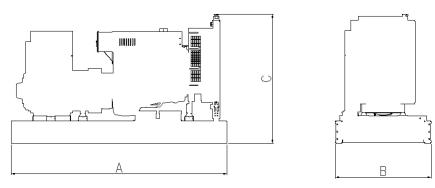
Weights*	Open	Enclosed
Unit dry weight kgs	1244	1944
Unit wet weight kgs	1555	2255

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

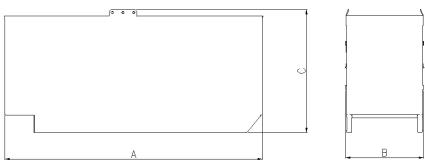
Dimensions	Length	Width	Height
Standard open set dimensions	2268	1094	1576
Enclosed set standard dimensions	3151	1142	1714

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