

» Generator set data sheet

Maximum fuel inlet temperature (°C)

Model: C110 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-CS	ND50-CS550				
			AF50-55	AF50-550				
			TBD					
Transient data sheet:			TD50-550					
	Í							
Standby		-			Prime			
Fuel consumption	kVA (kW)				kVA (kW)			
Ratings	110 (88		1		100 (80)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	1.6	2.8	4.3	6.0	1.5	2.6	4.0	5.4
L/hr	7.4	12.9	19.4	27.2	6.8	12.0	18.0	24.7
Engine			Standby	Standby Rating Prime Rating				
Engine manufacturer			Cummin	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	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			8	8				
Governor type			Electroni	Electronic				
Starting voltage			12V Volt	12V Volts DC				
Fuel flow			1					
Maximum fuel flow, L/hr			45	45				
	Maximum fuel inlet restriction, mm Hg							

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Air	Standby Rating	ļ	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		8419
Maximum cooling air flow static restriction mmH2O	12.7		
Waighte*		lendon d	
Weights*	Open	Enclosed	

^{*} 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

1263

1574

1963

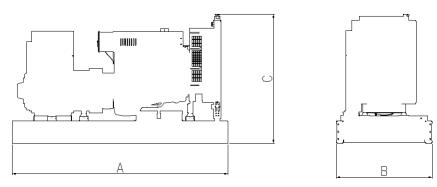
2274

Genset outline

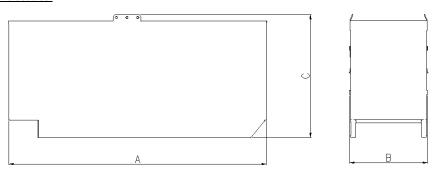
Unit dry weight kgs

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.

Alternator data

Connection ¹	Temp rise °C	Duty ²	Alternator	Voltage	
Wye -3 phase	163/125	S/P	UCI274C	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 Voltage

Voltagex1.73x0.8

See your distributor for more information.

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