Model: C8D5 (X-Series)

Frequency: 50
Fuel Type: Diesel

» Generator set data sheet



Our energy working for you.™

Maximum air cleaner restriction, kPa

Spec sheet:			SS23-C	SS23-CPGK				
Noise data sheet (Open/enclosed):			ND50-O	ND50-OS550 / ND50-CS550				
Airflow data sheet: Derate data sheet (Open/enclosed):			AF50-55	AF50-550 DD50-OS550 / DD50-CS550				
			DD50-O					
Transient data sheet:		TD50-5	50					
	la		•		l= .			
		Standby		Prime				
Fuel consumption	kVA (kW)				kVA (kW)			
Ratings	8.3 (6.6)			I	7.5 (6)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	0.3	0.4	0.5	0.6	0.3	0.4	0.5	0.6
L/hr	1.54	1.87	2.31	2.86	1.40	1.70	2.10	2.60
Engine			Standb	y rating		Prime ra	ating	
Engine manufacturer			Cummir	Cummins				
Engine model			X1.3G2	X1.3G2				
Configuration			4 Cycle;	4 Cycle; In-line; 2 Cylinder Diesel				
Aspiration			Naturally Aspirated					
Gross engine power output, kWm			11.8 10.6					
BMEP at set rated load, kPa		711	711 672					
Bore, mm			95			•		
Stroke, mm			91					
Rated speed, rpm			1500					
Piston speed, m/s			4.55	4.55				
Compression ratio			18.5:1	18.5:1				
Lube oil capacity, L			4.5	4.5				
Overspeed limit, rpm			2050					
Regenerative power, kW			2					
Governor type			Electronic					
Starting voltage		12 Volts DC						
Fuel flow								
Maximum fuel flow, L/hr			40					
Maximum fuel inlet restriction, mm Hg			73					
Maximum fuel inlet temperature (°C)		60						
Air								
Combustion air, m ³ /min			11.60			11.60		
Compaction an, in 7mm								

3.73 (HD clean element)



Exhaust	Standby rating	Prime rating		
Exhaust gas flow at set rated load, m ³ /min	12.19	12.19		
Exhaust gas temperature, °C	550	530		
Maximum exhaust back pressure, kPa	4.133	4.133		
Standard set-mounted radiator cooling				
Ambient design, °C	50			
Fan load, KW _m	<1			
Coolant capacity (with radiator), L	4.65			
Cooling system air flow, m3/sec @ 12.7mmH2O	0.388			
Total heat rejection, BTU/min	7.5 (to coolant)	7.5 (to coolant)		
Maximum cooling air flow static restriction mmH2O	0.125			

Open set derating factors kVA (kW)

Note: Standard open genset options running at 400V, 150m above sea level. For enclosed product derates, please refer to datasheet - DD50-CS550.

	27°C	40℃	45 <i>°</i> C	50°C	55 °C
Standby	10 (8)	9.6 (7.68)	9.4 (7.52)	9.2 (7.36)	9 (7.2)
Prime	9.4 (8)	9.4 (7.5)	9.4 (7.5)	9.4 (7.5)	8.6 (6.9)

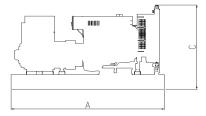
Weights*	Open	Enclosed
Unit dry weight kgs	N/A	RTF
Unit wet weight kgs	N/A	596

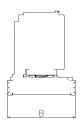
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions	Length	Width	Height
Standard open set dimensions	N/A	N/A	N/A
Enclosed set standard dimensions	1460	850	1130

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

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
-	1 Phase	150/125C	S/P	PI044F	230
-	3 Phase	150/125C	S/P	PI044D	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.	varying electrical load for unlimited hours. Prime Power	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

 $\frac{\text{kWx1000}}{\text{Voltagex1. 73x0.8}} \frac{\text{kWxSingleP haseFactorx1000}}{\text{Voltage}}$

See your distributor for more information.

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