Model: C22D5 (X-Series)

Frequency: 50
Fuel Type: Diesel

» Generator set data sheet



Our energy working for you.™

Maximum air cleaner restriction, kPa

Spec sheet:			SS23-CI	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:		TD50-55	50					
	ı				1			
Standby			Prime					
Fuel consumption	kVA (kW)				kVA (kW)			
Ratings	22 (17.6		1	-1	19.8 (15.84)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	0.3	0.6	0.8	1.1	0.3	0.5	0.8	1.0
L/hr	1.28	2.56	3.84	5.12	1.18	2.36	3.53	4.71
Engine			Standby	/ rating		Prime ra	ating	
Engine manufacturer			Cummin	IS				
Engine model			X2.5G2	X2.5G2				
Configuration			4 Cycle; In-line; 3 Cylinder Diesel					
Aspiration			Naturally Aspirated					
Gross engine power output, kWm			27 24.37					
BMEP at set rated load, kPa			851 768.1					
Bore, mm			91.7					
Stroke, mm			127	127				
Rated speed, rpm			1500					
Piston speed, m/s			7.62					
Compression ratio			18.5:1	18.5:1				
Lube oil capacity, L			6.5					
Overspeed limit, rpm			1650					
Regenerative power, kW			2					
Governor type			Mechanical - Std					
Starting voltage			12 Volts DC					
Fuel flow								
Maximum fuel flow, L/hr			40					
Maximum fuel inlet restriction, mm Hg			28.0249					
Maximum fuel inlet temperature (°C)			60					
Air			<u></u>					
Combustion air, m³/min			2.30			2.30		
			-			- I		



Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/min	N/A	N/A
Exhaust gas temperature, °C	660	660
Maximum exhaust back pressure, kPa	3.38	
Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, KW _m	0.6	
Coolant capacity (with radiator), L	7	
Cooling system air flow, m3/sec @ 12.7mmH2O	0.78	
Total heat rejection, BTU/min	2561	N/A
Maximum cooling air flow static restriction mmH2O	N/A	

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℃	40℃	45°C	50℃	55 °C
Standby	22 (17.6)	20.9 (16.72)	20.6 (16.47)	20.2 (16.14)	19.8 (15.8)
Prime	19.8 (16)	18.8 (15.05)	18.5 (14.82)	18.2 (14.53)	17.8 (14.22)

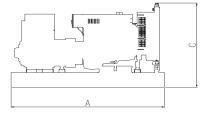
Weights*	Open	Enclosed
Unit dry weight kgs	418.5	743.5
Unit wet weight kgs	582	907

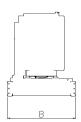
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions	Length	Width	Height
Standard open set dimensions	1667	930	1247
Enclosed set standard dimensions	2082	930	1448

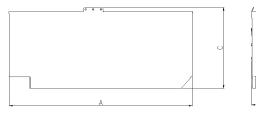
Genset outline

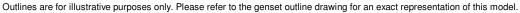
Open set





Enclosed set







Alternator data

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
-	3 Phase	163/150C	S/P	PI144D	380-415V
	3 Phase	125/105C	S/P	PI144E	380-440V
•					

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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