

» Generator set data sheet

Model: C33 D5 (X-Series)

Frequency: 50 Fuel Type: Diesel

Spec sheet: Noise data sheet (Open/enclosed): Airflow data sheet: Derate data sheet (Open/enclosed):			SS19-CI	SS19-CPGK				
			ND50-O	S550 / ND50	-CS550			
			AF50-550 DD50-OS550 / DD50-CS550					
								Transient data sheet:
	•							
Standby			Prime					
Fuel consumption	kVA (kV	kVA (kW)		kVA (kW)				
Ratings	33 (26.4	.)			30 (24)			•
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	0.7	1.0	1.4	2.0	0.5	0.8	1.2	1.6
L/hr	3.13	4.52	6.17	9.03	2.40	3.73	5.31	7.39
Engine			Standby Rating Prime Rating					
Engine manufacturer			Cummins					
Engine model			X 3.3 G1					
Configuration			4 Cycle; In-line; 4 Cylinder Diesel					
Aspiration			Naturally Aspirated					
Gross engine power output, kWm			36 32					
BMEP at set rated load, kPa			804 757					
Bore, mm			91.7					
Stroke, mm			127					
Rated speed, rpm			1500					
Piston speed, m/s			6.35					
Compression ratio			18.5:1					
Lube oil capacity, L			6.5					
Overspeed limit, rpm			1725 ±25					
Regenerative power, kW			2.4					
Governor type			Mechanical					
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	Standby Rating	Prime Rating
Combustion air, m³/min	1.90	1.90
Maximum air cleaner restriction, kPa	2.5	
Exhaust		
Exhaust gas flow at set rated load, m³/min	7121.0	8630.0
Exhaust gas temperature, °C	600	550
Maximum exhaust back pressure, kPa	4.75	
Standard set-mounted radiator cooling Ambient design, °C	50	
Fan load, KW _m	0.9	
Coolant capacity (with radiator), L	9.6	
Cooling system air flow, m3/sec @ 12.7mmH2O	106	
Table to the province	1653	1539
Total heat rejection, BTU/min	1000	
Total heat rejection, BTU/min Maximum cooling air flow static restriction mmH2O	TBC	<u> </u>

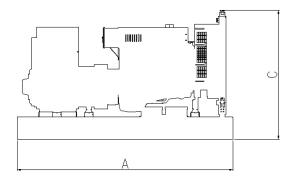
Weights*	Open	Enclosed
Unit dry weight kgs	710	1070
Unit wet weight kgs	875	1235

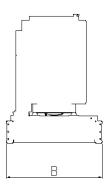
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions	Length	Width	Height
Standard open set dimensions	1753	930	1250
Enclosed set standard dimensions	2242	967	1513

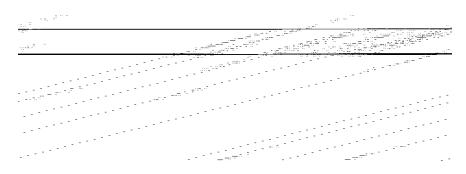
Genset outline

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	PI144G	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.	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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