

» Generator set data sheet

Maximum fuel inlet temperature (°C)

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-C	SS19-CPGK				
			ND50-0	S550 / ND50	-CS550			
			AF50-5	AF50-550				
			DD50-0	S550 / DD50	-CS550			
Transient data sheet:			TD50-550					
	ption Standby kVA (kW)			Prime				
Fuel consumption				kVA (kW)				
Ratings	33 (26.4	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	3.1	4.5	6.2	9.0	2.4	3.7	5.3	7.4
Engine			Standb	Standby Rating Prime Rating				
Engine manufacturer			Cummir	Cummins				
Engine model		X 3.3 G	X 3.3 G1					
Configuration			4 Cycle;	4 Cycle; In-line; 4 Cylinder Diesel				
Aspiration			Naturall	Naturally Aspirated				
Gross engine power output, kWm			36	36 32				
BMEP at set rated load, kPa			804 757					
Bore, mm			91.7	91.7				
Stroke, mm			127	127				
Rated speed, rpm			1500	1500				
Piston speed, m/s			6.35	6.35				
Compression ratio			18.5:1	18.5:1				
Lube oil capacity, L		·	6.5	6.5				
Overspeed limit, rpm			1725 ±2	1725 ±25				
Regenerative power, kW			2.4	2.4				
Governor type			Mechan	Mechanical				
Starting voltage			12 Volts	12 Volts DC				
Fuel flow			<u> </u>					
Maximum fuel flow, L/hr			40	40				
Maximum fuel inlet restriction, mm Hg				73				

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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	
Total heat rejection, BTU/min	1653	1539
Maximum cooling air flow static restriction mmH2O	TBC	•
Maximum cooling air flow static restriction mmH2O	1	1
Weights*	Open	Enclosed

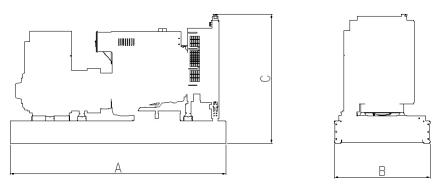
Weights*	Open	Enclosed
Unit dry weight kgs	710	1070
Unit wet weight kgs	875	1235

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

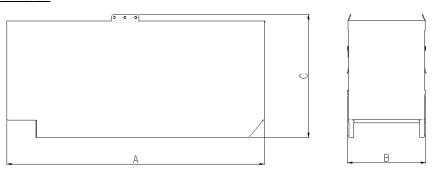
Dimensions	Length	Width	Height
Standard open set dimensions	1753	930	1250
Enclosed set standard dimensions	2242	967	1513

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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