

» Generator set data sheet



Model: C33 D5 (X-Series)
Frequency: 50
Fuel Type: Diesel

Spec sheet:	SS19-CPGK
Noise data sheet (Open/enclosed):	ND50-OS550 / ND50-CS550
Airflow data sheet:	AF50-550
Derate data sheet (Open/enclosed):	DD50-OS550 / DD50-CS550
Transient data sheet:	TD50-550

	Standby				Prime			
	kVA (kW)				kVA (kW)			
Fuel consumption								
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	3.1	4.5	6.2	9.0	2.4	3.7	5.3	7.4

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, m ³ /min	1.90	1.90
Maximum air cleaner restriction, kPa	2.5	

Exhaust		
Exhaust gas flow at set rated load, m ³ /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, m ³ /sec @ 12.7mmH ₂ O	106	
Total heat rejection, BTU/min	1653	1539
Maximum cooling air flow static restriction mmH ₂ O	TBC	

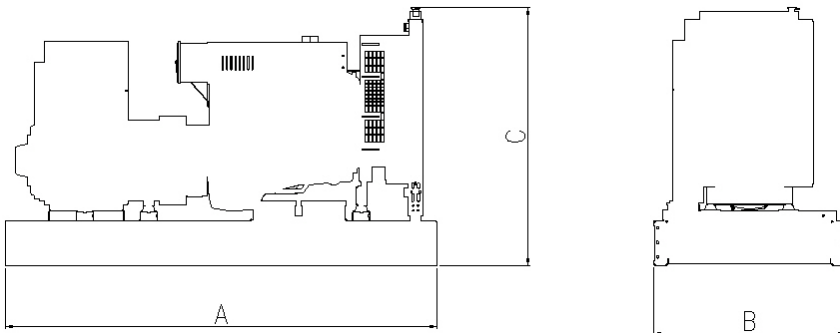
Weights*	Open	Enclosed
Unit dry weight kgs	710	1070
Unit wet weight kgs	875	1235

* 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

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{\text{kW} \times \text{Single Phase Factor} \times 1000}{\text{Voltage}}$$

See your distributor for more information.

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