



» Generator set data sheet

Model:	C28 D5 (X-Series)
Frequency:	50
Fuel Type:	Diesel

Spec sheet:	SS26-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			Data Ce	Data Center Continuous			
Fuel consumption	kVA (kW	kVA (kW)			kVA (kW	kVA (kW)		
Ratings	27.5 (22)	27.5 (22)		24.8 (19	24.8 (19.8)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	0.4	0.7	1.1	1.4	0.3	0.7	1.0	1.3
L/hr	1.63	3.25	4.88	6.50	1.50	3.00	4.50	6.00

Engine	Standby rating	Data Center Continuous	
Engine manufacturer	Cummins	•	
Engine model	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		
Rated speed, rpm	1500	1500	
Piston speed, m/s	7.62		
Compression ratio	18.5:1		
Lube oil capacity, L	6.5	6.5	
Overspeed limit, rpm	1650		
Regenerative power, kW	2		
Governor type	Mechanical - Std	Mechanical - Std	
Starting voltage	12 Volts DC		

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Air	Standby rating	Data Center Continuous
Combustion air, m ³ /min	2.30	2.30
Maximum air cleaner restriction, kPa	4	
Exhaust		
Exhaust gas flow at set rated load, m ³ /min	N/A	N/A
Exhaust gas temperature, °C	660	660
Maximum exhaust back pressure, kPa	3.38	·

Standard set-mounted radiator cooling

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	

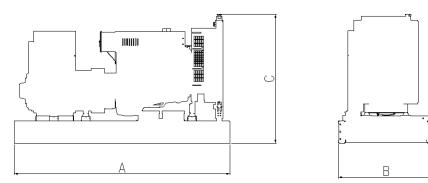
Weights*	Open	Enclosed
Unit dry weight kgs	441.5	766.5
Unit wet weight kgs	605	930

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

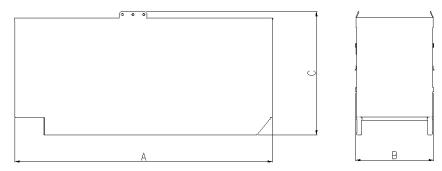
Dimensions	Length	Width	Height
Standard open set dimensions	1667	930	1247
Enclosed set standard dimensions	2082	930	1448

Genset outline

Open set



Enclosed set



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

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Alternator data

Connection ¹	Temp rise °C	Duty ²	Alternator	Voltage
3 Phase	163/125C	S/P	PI144E	380-415V
3 Phase	150/125C	S/P	PI144F	380-440V
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Ratings definitions

Emergency Standby	Limited-Time running	Prime Power (PRP)	Data Center Continuous
Power (ESP)	Power (LTP):		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 back-up power for data center applications evaluated at specific site conditions. This rating is based on load profiles and performance requirements consistent with the data center industry. This rating is site specific and changes in application type or location would require further consideration.

Formulas for calculating full load currents:

Three phase output

Single phase output

kWx1000

kWxSinglePhaseFactorx1000

Voltagex1.73x0.8

Voltage