

#### » Generator set data sheet

Model: C28 D5 (X-Series)

Frequency: 50 Fuel Type: Diesel

Maximum fuel inlet temperature (°C)

Spec sheet:  Noise data sheet (Open/enclosed):  Airflow data sheet:  Derate data sheet (Open/enclosed):  Transient data sheet:			SS26-CF	SS26-CPGK												
			ND50-O	ND50-OS550 / ND50-CS550												
			AF50-550 DD50-OS550 / DD50-CS550 TD50-550													
											•		ě			
									Standby	Standby			Data Ce	Data Center Continuous		
Fuel consumption	kVA (kW)			kVA (kW)												
Ratings	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 Ce	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			24.37	24.37									
BMEP at set rated load, kPa			851 768.1													
Bore, mm			91.7													
Stroke, mm			127													
Rated speed, rpm			1500													
Piston speed, m/s			7.62													
Compression ratio			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			1													
Maximum fuel flow, L/hr			40													
Maximum fuel inlet restriction, mm Hg			28 0249	28.0249												

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Air	Standby rating	Data Center Continuous	
Combustion air, m³/min	2.30	2.30	
Maximum air cleaner restriction, kPa	4	•	
Exhaust			
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  Fan load, KW	50		
Fan load, KW <sub>m</sub>	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	

<sup>\*</sup> 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

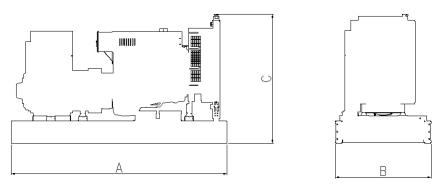
605

930

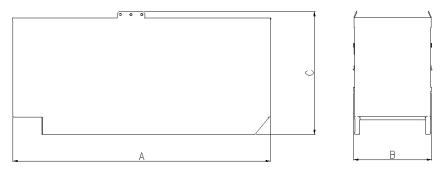
#### **Genset outline**

Unit wet weight kgs

#### 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 <sup>1</sup>	Temp rise °C	Duty <sup>2</sup>	Alternator	Voltage
3 Phase	163/125C	S/P	PI144E	380-415V
3 Phase	150/125C	S/P	PI144F	380-440V
,				

# **Ratings definitions**

Emergency Standby Power (ESP)	Limited-Time running Power (LTP):	Prime Power (PRP)	Data Center 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 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

# See your distributor for more information.

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