

# » Generator set data sheet

Model: C22 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):			SS26-CF	SS26-CPGK ND50-OS550 / ND50-CS550				
			ND50-O					
			AF50-550 DD50-OS550 / DD50-CS550					
								Transient data sheet:
	i		•		i			
	Standby			Data Center Continuous				
Fuel consumption	kVA (kW)			kVA (kW)				
Ratings	22 (17.6)			19.8 (15	19.8 (15.84)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	0.3	0.6	0.8	1.1	0.3	0.5	0.8	1.0
L/hr	1.28	2.56	3.84	5.12	1.18	2.36	3.53	4.71
Engine			Standby	Standby rating Data Center Contin			nter Continu	ious
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	127				
Rated speed, rpm			1500	1500				
Piston speed, m/s			7.62	7.62				
Compression ratio		·	18.5:1					
Lube oil capacity, L			6.5	6.5				
Overspeed limit, rpm			1650	1650				
Regenerative power, kW			2					
Governor type			Mechani	Mechanical - Std				
Starting voltage			12 Volts DC					
Fuel flow								
Maximum fuel flow, L/hr			40					
Maximum fuel inlet restriction, mm Hg				28.0249				

60

Air	Standby rating	Data Center Continuous	
Combustion air, m³/min	2.30	2.30	
Maximum air cleaner restriction, kPa	4	·	
Exhaust	1		
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		
Ambient design, C 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	418.5	743.5	

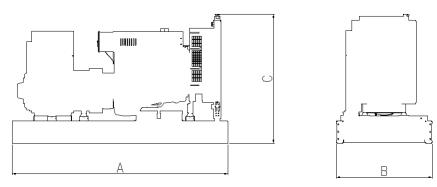
Unit wet weight kgs 582 907

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

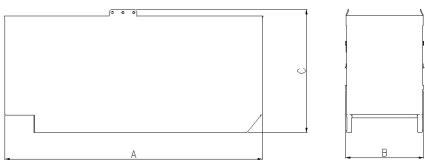
Dimensions	Length	Width	Height
Standard open set dimensions	1667	930	1247
Enclosed set standard dimensions	2082	930	1448

#### **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.

# Alternator data

Connection <sup>1</sup>	Temp rise °C	Duty <sup>2</sup>	Alternator	Voltage
3 Phase	163/150C	S/P	PI144D	380-415V
3 Phase	125/105C	S/P	PI144E	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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