Model: C22 D5 Frequency: 50 Fuel Type: Diesel

# » Generator set data sheet22 kVA Standby



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Spec sheet:	SS2-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	Standby kVA (kW)		Prime	Prime kVA (kW)			
Fuel consumption	kVA (kW			kVA (kV				
Ratings	22 (17.6)	22 (17.6)		20 (16)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	0.3	0.6	0.9	1.2	0.3	0.6	0.8	1.1
L/hr	2	3	4	6	2	3	4	5

Engine	Standby rating	Prime rating		
Engine manufacturer	Cummins	•		
Engine model	4B3.3G1			
Configuration	4 Cycle; In-line; 4 Cylinder	r Diesel		
Aspiration	Naturally Aspirated			
Gross engine power output, kWm	36	32		
BMEP at set rated load, kPa	876	787		
Bore, mm	95	•		
Stroke, mm	115	115		
Rated speed, rpm	1500	1500		
Piston speed, m/s	5.8			
Compression ratio	18.2:1			
Lube oil capacity, L	7			
Overspeed limit, rpm	1800 ±50			
Regenerative power, kW	3			
Governor type	Mechanical			
Starting voltage	12 Volts DC			

# Fuel flow Maximum fuel flow, L/hr 12.5

Maximum fuel flow, L/hr	12.5
Maximum fuel inlet restriction, mm Hg	73
Maximum fuel inlet temperature (°C)	60

Air		
Combustion air, m³/min	2.1	2.1
Maximum air cleaner restriction, kPa	6.2	



Exhaust	Standby rating	Prime rating	
Exhaust gas flow at set rated load, m³/min	5.7	5.4	
Exhaust gas temperature, °C	498	448	
Maximum exhaust back pressure, kPa	10.2		
Standard set-mounted radiator cooling			
Ambient design, °C	50		
Fan load, KW <sub>m</sub>	0.7		
Coolant capacity (with radiator), L	9.1		
Cooling system air flow, m3/min @ 12.7mmH2O	0.92		
Total heat rejection, BTU/min	1230	1180	
Maximum cooling air flow static restriction mmH2O	12.7		

# Open set derating factors kVA (kW)

Note: Standard open genset options running at 400V, 150m above sea level. For enclosed product derates, please refer to datasheet - DD50-CS550.

	27°C	40°C	45°C	50°C	55°C
Standby	22 (17.6)	22 (17.6)	21.9 (17.5)	21.1 (16.9)	20.5 (16.4)
Prime	20 (16)	20 (16)	19.9 (15.9)	19.3 (15.4)	18.6 (14.9)

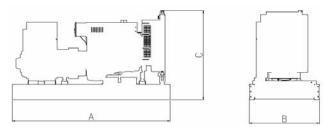
Weights*	Open	Enclosed
Unit dry weight kgs	544	868
Unit wet weight kgs	609	933

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

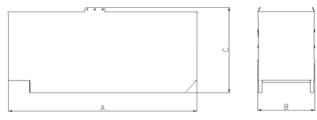
Dimensions	Length	Width	Height
Standard open set dimensions	1753	930	1256
Enclosed set standard dimensions	2244	969	1575

## **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**

Feature code	Connection <sup>1</sup>	Temp rise degrees C	Duty <sup>2</sup>	Alternator	Voltage
B729	Wye, 3 Phase	150/125C	S/P	BC184E	380-440V
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## **Ratings definitions**

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Emergency Standby Power (ESP)	Limited-Time running Power	Prime Power (PRP):	Base Load (Continuous) Power
Applicable for supplying power to varying electrical load for the duration of power interruption of a	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	Base Load (Continuous) Power 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 kWxSingleP haseFactor x1000

Voltagex1. 73x0.8 Voltage

## See your distributor for more information.

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