

## » Generator set data sheet

Maximum fuel inlet temperature (°C)

Model: C550 D5e Frequency: 50 Fuel Type: Diesel

Spec sheet:			SS11-CF	SS11-CPGK				
Noise data sheet (Open/enclosed): Airflow data sheet: Derate data sheet (Open/enclosed):			ND50-O	ND50-OS550 / ND50-CS550 AF50-550				
			AF50-55					
			DD50-OS550 / DD50-CS550					
Transient data sheet:			TD50-550					
	_		•					
Standby		Prime						
Fuel consumption	on kva (kw)		kVA (kW)					
Ratings	550 (440	0)			500 (400	0)		
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	8.0	13.6	19.3	26.7	7.3	12.6	17.7	22.9
L/hr	36.5	62.0	88.0	121.7	33.4	57.4	80.6	104.2
Engine			Standby Rating			Prime Rating		
Engine manufacturer			Cummins					
Engine model			QSX15 G8					
Configuration			4 Cycle; In-Line; 6 Cylinder Diesel					
Aspiration			Turbo Charged and Charge Air Cooled					
Gross engine power output, kWm			500 444					
BMEP at set rated load, kPa			2675 2371					
Bore, mm			137					
Stroke, mm			169					
Rated speed, rpm			1500					
Piston speed, m/s		<u>-</u>	8.4					
Compression ratio			17:1					
Lube oil capacity, L			91					
Overspeed limit, rpm			1500 ±10%					
Regenerative power, kW			37					
Governor type			Electronic					
Starting voltage			24 Volts DC					
Fuel flow			1					
Maximum fuel flow, L/hr			424					
Maximum fuel inlet restriction, mm Hg			127					

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Air	Standby Rating	Prime Rating
Combustion air, m³/min	36.27	32.50
Maximum air cleaner restriction, kPa	3.73 - 6.22	<u> </u>
Exhaust		
Exhaust gas flow at set rated load, m³/min	82.2	75.3
Exhaust gas temperature, °C	515	488
	•	
Maximum exhaust back pressure, kPa	10.2	
Standard set-mounted radiator cooling  Ambient design, *C	50	
Standard set-mounted radiator cooling Ambient design, °C Fan load, KW <sub>m</sub>	50 16	
Standard set-mounted radiator cooling  Ambient design, *C	50	
Standard set-mounted radiator cooling Ambient design, °C Fan load, KW <sub>m</sub>	50 16	
Standard set-mounted radiator cooling  Ambient design, °C  Fan load, KW <sub>m</sub> Coolant capacity (with radiator), L	50 16 65.9	13700

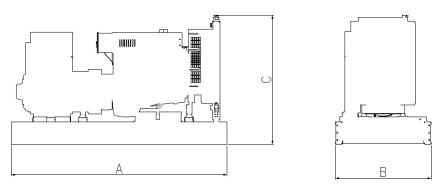
Weights*	Open	Enclosed
Unit dry weight kgs	4137	5442
Unit wet weight kgs	4975	6280

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

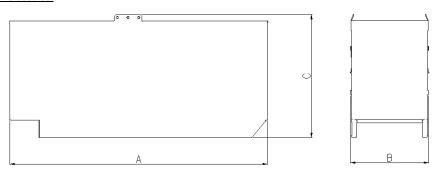
Dimensions	Length	Width	Height
Standard open set dimensions	3427	1500	2066
Enclosed set standard dimensions	5106	1553	2447

### **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
Wye, 3 Phase	125/105C	S/P	HC5D	380-440V
Wye, 3 Phase	150/125C	S/P	HC5E	400V

**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 Single phase output

kWx1000 kWxSinglePhaseFactorx1000

Voltagex1.73x0.8

Voltage

## See your distributor for more information.

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