



#### Generator set data sheet

Model: C44 D5 (X-series) Frequency: 50 Fuel Type: Diesel

Spec sheet:	SS27-CPGK
Noise data sheet (Open/enclosed):	ND50-OS550
Airflow data sheet:	AF50-550
Derate data sheet (Open/enclosed):	тво
Transient data sheet:	TD50-550

	Standby				Prime	Prime		
Fuel consumption	kVA (kW)				kVA (kW	kVA (kW)		
Ratings	44 (35.2)	44 (35.2)			40 (32)	40 (32)		
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	0.9	1.3	1.8	2.5	0.8	1.2	1.7	2.2
L/hr	3.9	6.0	8.4	11.2	3.5	5.4	7.6	9.9

Engine	Standby Rating	Prime Rating		
Engine manufacturer	Cummins	Cummins		
Engine model	X3.8 G4	X3.8 G4		
Configuration	Inline 4-Cylinder Diesel	Inline 4-Cylinder Diesel		
Aspiration	TUrbocharged	TUrbocharged		
Gross engine power output, kWm	43.4	38.7		
BMEP at set rated load kPa	911	815		
Bore, mm	97	97		
Stroke, mm	128	128		
Rated speed, rpm	1500	1500		
Piston speed, m/s	6.4	6.4		
Compression ratio	17.5:1	17.5:1		
Lube oil capacity, L	9	9		
Overspeed limit, rpm	1650	1650		
Regenerative power, kW	3.87	3.87		
Governor type	Mechanical as std	Mechanical as std		
Starting voltage	12 Volts DC	12 Volts DC		

Fuel flow	
Maximum fuel flow, L/hr	15.6
Maximum fuel inlet restriction, mm Hg	3.99
Maximum fuel inlet temperature (°C)	40





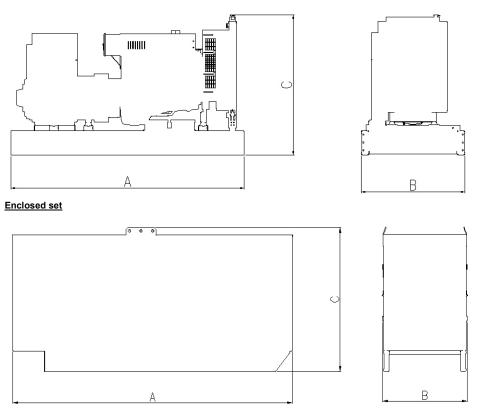
Air	Standby Ratin	g	Prime Rating	
Combustion air, m <sub>3</sub> / min	3.60		3.50	
Maximum air cleaner restriction, kPa	6.2			
Exhaust	1			
Exhaust gas flow at set rated load, m <sub>3</sub> / min	3.8		3.6	
Exhaust gas temperature, °C	471		437	
Maximum exhaust back pressure, kPa	6.7	6.7		
Standard set-mounted radiator cooling				
Ambient design, <sup>c</sup> C	55			
Fan load, KWm	2 +/- 1	2 +/- 1		
Coolant capacity (with radiator), L	12.5	12.5		
Cooling system air flow, m3/sec @ 12.7mmH2O	1.88	1.88		
Total heat rejection, BTU/min	3835		3473	
Maximum cooling air flow static restriction mmH2O	12.7			
Weights*	Open	Enclosed		
Unit dry weight kgs	945	1395		
Unit wet weight kgs	1105	1525		
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\* Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions	Length	Width	Height
Standard open set dimensions	2115	1044	1516
Enclosed set standard dimensions	2600	1115	1795

## **Genset outline**

#### Open set



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





### **Alternator data**

Connection	Temp rise °C	Duty <sub>2</sub>	Alternator	Voltage
Wye, -3 Phase	163/125	S/P	UC122 4C	380-415
Wye –3 phase	150/105	S/P	UC122 4D	380-415

# **Ratings definitions**

Emergency Standby Power (ESP)	Limited-Time running Power (LTP):	Prime Power (PRP)	Base Load (Continuous) Power (COP)
Applicable for supplying power to vary- ing 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, DIN6271 and BS5514.	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 vary- ing 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 continu- ously 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 Voltagex1. 73x0.8 kWxSinglePhaseFactorx1000 Voltage

Dale Power Solutions Ltd reserves the right to make changes in specification without notice or liability. All information is subject to Dale Power Solutions Ltd own data & is considered accurate at time of publishing.

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