

» Generator set data sheet

Maximum fuel inlet temperature (°C)

Model: C44 D5 (S3.8)

Frequency: 50
Fuel Type: Diesel

Spec sheet: Noise data sheet (Open/enclosed): Airflow data sheet: Derate data sheet (Open/enclosed):			SS27-C	SS27-CPGK				
			ND50-C	ND50-CS550				
			AF50-55	AF50-550 TBD				
			TBD					
Transient data sheet:			TD50-550					
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Fuel consumption Standby kVA (kW)				Prime				
		kVA (kW)						
Ratings	44 (35.2	2)			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	8.0	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 F	Prime Rating		
Engine manufacturer			Cummins					
Engine model			S3.8 G4					
Configuration			Inline 4-Cylinder Diesel					
Aspiration			Turbocharged					
Gross engine power output, kWm			43.4			38.7	38.7	
BMEP at set rated load, kPa			911 815					
Bore, mm			97					
Stroke, mm			128					
Rated speed, rpm			1500					
Piston speed, m/s			6.4					
Compression ratio			17.5 : 1					
Lube oil capacity, L			9					
Overspeed limit, rpm			1650					
Regenerative power, kW			3.87					
Governor type			Mechanical as std					
Starting voltage			12V Volts DC					
Fuel flow								
Maximum fuel flow, L/hr			15.6					
Maximum fuel inlet restriction, mm Hg			3.99	3.99				
				_				

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Air	Standby Rating	Prime Rating
Combustion air, m³/min	3.60	3.50
Maximum air cleaner restriction, kPa	6.2	
Exhaust		
Exhaust gas flow at set rated load, m³/min	3.8	3.6
Exhaust gas temperature, °C	471	437
Exhaust gas temperature, o		
Maximum exhaust back pressure, kPa	6.7	
,	6.7 55	
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling		
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling Ambient design, °C	55	
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling Ambient design, *C Fan load, KW _m	55 2 +/- 1	
Maximum exhaust back pressure, kPa Standard set-mounted radiator cooling Ambient design, *C Fan load, KW _m Coolant capacity (with radiator), L	55 2 +/- 1 12.5	3473

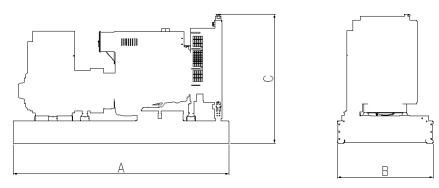
Weights*	Open	Enclosed
Unit dry weight kgs	945	1395
Unit wet weight kgs	1105	1525

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

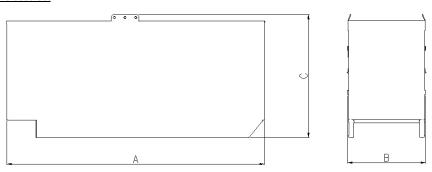
Dimensions	Length	Width	Height
Standard open set dimensions	2115	1044	1516
Enclosed set standard dimensions	2600	1115	1795

Genset outline

Open set



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 ¹	Temp rise °C	Duty ²	Alternator	Voltage	
Wye -3 phase	163/125	S/P	UCI22 4C	380-415	
Wye -3 phase	150/105	S/P	UCI22 4D	380-415	
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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