Model: C275 D5 Frequency: 50 Fuel Type: Diesel

» Generator set data sheet 275 kVA Standby



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Spec sheet:	SS8-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	- · · · · · · · · · · · · · · · · · · ·			Prime	Prime kVA (kW)		
Fuel consumption	kVA (kW				kVA (k\			
Ratings	275 (220	275 (220)		250 (20	250 (200)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	3.7	6.6	10.1	13.7	3.1	5.7	8.4	11.5
L/hr	17	30	46	63	14	26	38	53

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	·
Engine model	QSL9 G5	
Configuration	4 Cycle; In-line; 6 Cylinde	r Diesel
Aspiration	Turbo Charged and Charg	ge Air Cooled
Gross engine power output, kWm	310	268
BMEP at set rated load, kPa	2785	2413
Bore, mm	114	-
Stroke, mm	145	
Rated speed, rpm	1500	
Piston speed, m/s	7.2	
Compression ratio	16.8:1	
Lube oil capacity, L	26.5	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kW	47	
Governor type	Electronic	
Starting voltage	24 Volts DC	

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

Air		
Combustion air, m³/min	20.3	18.7
Maximum air cleaner restriction, kPa	6.2	



Exhaust	Standby rating	Prime rating	
Exhaust gas flow at set rated load, m³/min	53	44.9	
Exhaust gas temperature, °C	560	500	
Maximum exhaust back pressure, kPa	10.2		
Standard set-mounted radiator cooling			
Ambient design, °C	50		
Fan load, KW _m	10		
Coolant capacity (with radiator), L	15		
Cooling system air flow, m3/min @ 12.7mmH2O	7.93		
Total heat rejection, BTU/min	10190	8415	
Maximum cooling air flow static restriction mmH2O	19.1		

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	275 (220)	265 (212)	257 (205.6)	249.1 (199.3)	241.1 (192.9)
Prime	250 (200)	240.9 (192.7)	233.6 (186.9)	226.5 (181.2)	219.3 (175.4)

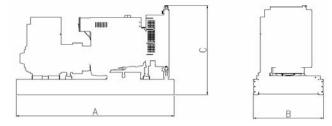
Weights*	Open	Enclosed
Unit dry weight kgs	2295	3872
Unit wet weight kgs	2347	4511

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

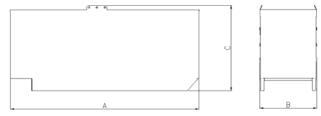
Dimensions	Length	Width	Height
Standard open set dimensions	3135	1100	1928
Enclosed set standard dimensions	4254	1424	2215

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 ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
B681	Wye, 3 Phase	163/125	S/P	UCD274K	380-415V
B726	WYE	125/105	S/P	HC4D	380-440V

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	Applicable for supplying power to a	Applicable for supplying power to	Applicable for supplying power
varying electrical load for the	constant electrical load for limited	varying electrical load for unlimited	continuously to a constant electrical
duration of power interruption of a	hours. Limited Time Running	hours. Prime Power (PRP) is in	load for unlimited hours.
reliable utility source. Emergency	Power (LTP) is in accordance with	accordance with ISO 8528. Ten	Continuous Power (COP) in
Standby Power (ESP) is in	ISO 8528.	percent overload capability is	accordance with ISO 8528, ISO
accordance with ISO 8528. Fuel		available in accordance with ISO	3046, AS 2789, DIN 6271 and BS
Stop power in accordance with ISO		3046, AS 2789, DIN 6271 and BS	5514.
3046, AS 2789, DIN 6271 and BS		5514.	
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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