

Model: C400 D5
Frequency: 50
Fuel Type: Diesel

» **Generator set data sheet**
 400kVA Standby @ 50Hz



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Spec sheet:	SS9-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

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	400 (320)				360 (288)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	4.9	8.9	13.5	18.5	4.6	8.6	12.5	16.7
L/hr	22	40	62	84	21	39	57	76

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	NTA855 G4	
Configuration	4 Cycle; In-line; 6 Cylinder Diesel	
Aspiration	Turbocharged and Aftercooled	
Gross engine power output, kWm	351	317
BMEP at set rated load, kPa	1999	1806
Bore, mm	140	
Stroke, mm	152	
Rated speed, rpm	1500	
Piston speed, m/s	7.6	
Compression ratio	14:1	
Lube oil capacity, L	36	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kW	22	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	375
Maximum fuel inlet restriction, mm Hg	152
Maximum fuel inlet temperature (°C)	70

Air	
Combustion air, m ³ /min	26.10
Maximum air cleaner restriction, kPa	6.2



Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /min	73.5	67.7
Exhaust gas temperature, °C	541	524
Maximum exhaust back pressure, kPa	10.2	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, KW _m	8	
Coolant capacity (with radiator), L	45	
Cooling system air flow, m3/sec @ 12.7mmH2O	7.5	
Total heat rejection, BTU/min	11750	10625
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	400 (320)	390 (312)	378.3 (302.6)	366.6 (293.3)	354.9 (283.9)
Prime	360 (288)	354.5 (283.6)	343.9 (275.1)	333.3 (266.6)	322.6 (258.1)

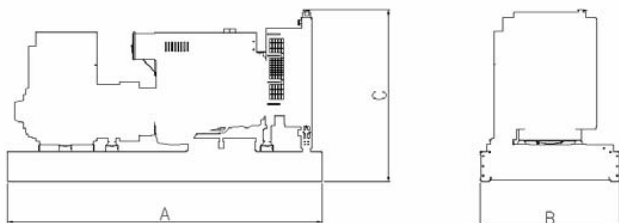
Weights*	Open	Enclosed
Unit dry weight kgs	3373	4921
Unit wet weight kgs	3563	5698

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

Dimensions	Length	Width	Height
Standard open set dimensions	3549	1100	2078
Enclosed set standard dimensions	5110	1563	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

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
B681	Wye, 3 Phase	163/125	S/P	HC4F	380-415V

Ratings definitions

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 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

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

See your distributor for more information.

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