Model: C350 D6
Frequency: 60
Fuel Type: Diesel

» Generator set data sheet
437.5 kVA Standby

Our energy working for you.™

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			
	Kw (kVA)				Kw (kVA)			
Ratings	350 (437.5)				320 (400)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	6.6	11.1	15.8	21.1	5.9	10.3	14.5	19.1
L/hr	30	50	72	96	27	47	66	87

Engine

	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	NTA855 G3	
Configuration	4 Cycle; In-line; 6 Cylinder Diesel	
Aspiration	Turbo Charged	
Gross engine power output, kWm	399	358
BMEP at set rated load, kPa	1896	1703
Bore, mm	140	
Stroke, mm	152	
Rated speed, rpm	1800	
Piston speed, m/s	9.1	
Compression ratio	14:1	
Lube oil capacity, L	36	
Overspeed limit, rpm	2100 ±50	
Regenerative power, kW	22	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow

Maximum fuel flow, L/hr	405	
Maximum fuel inlet restriction, mm Hg	203	
Maximum fuel inlet temperature (°C)	70	

Air

Combustion air, m^3/min	32.6	28.6
Maximum air cleaner restriction, kPa	6.2	

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m^3/min	90.4	78.9
Exhaust gas temperature, °C	527	521
Maximum exhaust back pressure, kPa	10.2	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, KW_m	19	
Coolant capacity (with radiator), L	45	
Cooling system air flow, m3/min @ 12.7mmH2O	7.2	
Total heat rejection, BTU/min	13375	12000
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	437.5 (350)	437.5 (350)	437.5 (350)	437.5 (350)	437.5 (350)
Prime	397.8 (318.2)	397.8 (318.2)	397.8 (318.2)	395.8 (316.6)	391.9 (313.5)

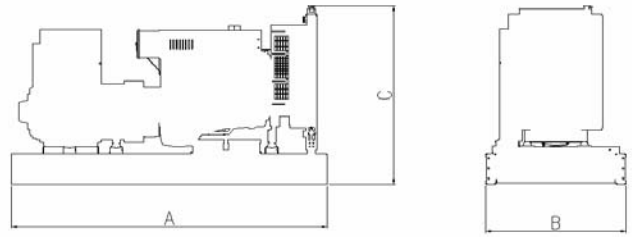
Weights*	Open	Enclosed
Unit dry weight kgs	3373	4921
Unit wet weight kgs	3563	5698

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

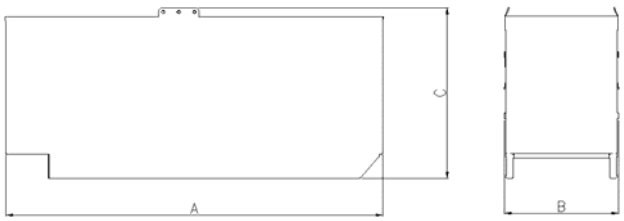
Dimensions	Length	Width	Height
Standard open set dimensions	3549	1100	2078
Enclosed set standard dimensions	5110	1563	2447

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.

Power Generation

Alternator data

Feature code	Connection[1]	Temp rise degrees C	Duty[2]	Alternator	Voltage
B252	Wye, 3 Phase	125/105	S/P	HC4F	416-480V

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

$$\frac{\text{kWx1000}}{\text{Voltagex1. 73x0.8}}$$

Single phase output

$$\frac{\text{kWxSingleP haseFactor x1000}}{\text{Voltage}}$$

See your distributor for more information.

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