Generator set data sheet

Model: C350 D5
Frequency: 50 Hz
Fuel type: Diesel

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	350 (280)				320 (256)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
gph	4.5	8.0	12.2	16.7	4.4	7.9	11.4	15.2
L/hr	20.3	36.4	55.7	76.0	20.0	36.0	52.0	69.0

Engine

	Standby rating	**Prime rating**
Engine manufacturer	Cummins	
Engine model	NT855 G6	
Configuration	4 Cycle; in-line; 6 cylinder diesel	
Aspiration	Turbocharged	
Gross engine power output, kWm	310	280
BMEP at set rated load, kPa	1765	1600
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	288
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

Air	Standby rating	Prime rating
Combustion air, m^3/min	22.50	21.70
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load, m^3/min	69.4	64.3
Exhaust gas temperature, °C	607	574
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, m^3/sec @ 12.7 mm H_2O	7.5	
Total heat rejection, Btu/min	9545	8625
Maximum cooling air flow static restriction mm H_2O	19.1	

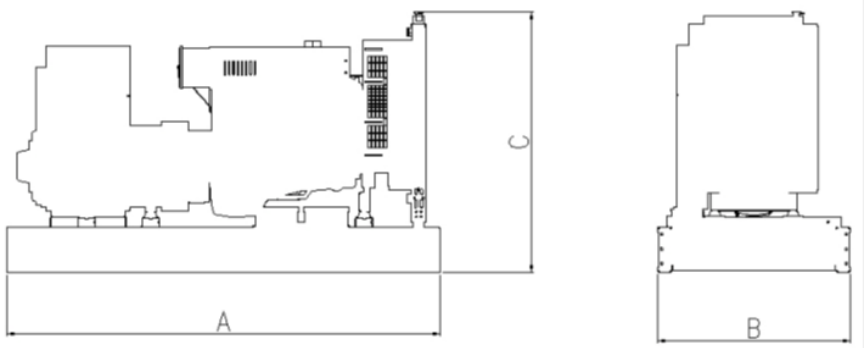
Weights*	Open	Enclosed
Unit dry weight kgs	3127	4744
Unit wet weight kgs	3386	5576

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

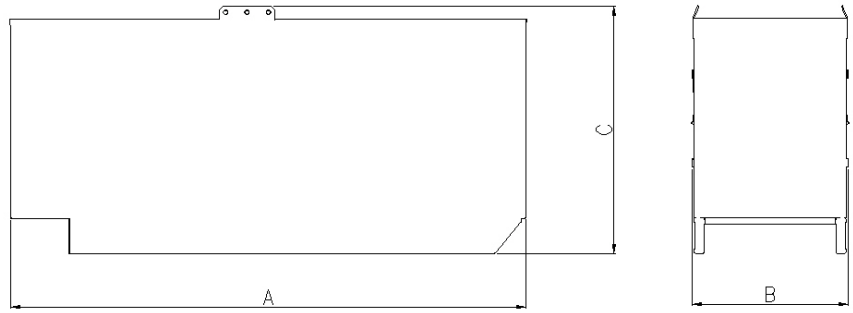
Dimensions	Length	Width	Height
Standard open set dimensions mm	3061	1257	1914
Enclosed set standard dimensions mm	5110	1563	2447

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

Connection	Temp rise ºC	Duty	Alternator	Voltage
Wye, 3 Phase	163/125	S/P	HC4E	380-415 V

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) is 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

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

For more information contact your local Cummins distributor or visit power.cummins.com

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DS25-CPGK (08/17)