Model: C350 D5
Frequency: 50
Fuel Type: Diesel

» Generator set data sheet

350kVA Standby @ 50Hz

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			
	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	36	56	76	20	36	52	69

Engine

	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	NT855 G6	
Configuration	4 Cycle; In-line; 6 Cylinder Diesel	
Aspiration	Turbo Charged	
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

Combustion air, m^3/min	22.50	21.70
Maximum air cleaner restriction, kPa	6.2	

Exhaust	Standby rating	Prime rating
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, m3/sec @ 12.7mmH2O	7.5	
Total heat rejection, BTU/min	9545	8625
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	350 (280)	345 (276)	334.6 (267.7)	324.3 (259.4)	314 (251.2)
Prime	318.1 (254.5)	313.6 (250.9)	304.3 (243.4)	294.9 (235.9)	285.4 (228.3)

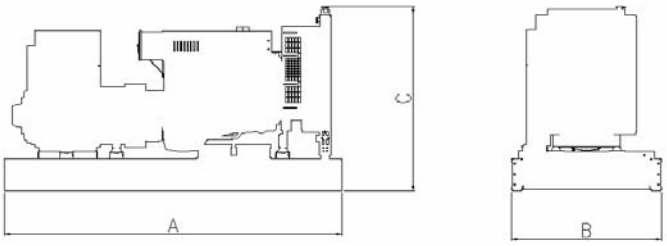
Weights*	Open	Enclosed
Unit dry weight kgs	3196	4744
Unit wet weight kgs	3386	5576

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

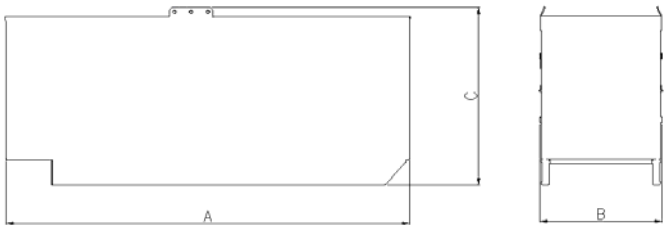
Dimensions	Length	Width	Height
Standard open set dimensions	3549	1100	2078
Enclosed set standard dimensions	5110	1563	2447

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
B681	Wye, 3 Phase	163/125	S/P	HC4E	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

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

Single phase output

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

See your distributor for more information.

Cummins Power Generation
Manston Park, Columbus Avenue
Manston, Ramsgate
Kent CT12 5BF, UK
Telephone: +44 (0) 1843 255000
Fax: +44 (0) 1843 255902
E-Mail: cpg.uk@cummins.com
Web: www.cumminspower.com

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