Model: C150 D5
Frequency: 50Hz
Fuel Type: Diesel

» Generator set data sheet
150 kVA Standby

ADVANCED® Diesel Engineering Ltd.

Spec sheet:	**SS5-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	150 (120)				136.3 (109)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
US gph	2.2	4.2	5.9	7.7	1.9	3.2	5.1	5.7
L/hr	10	19	27	35	9	15	23	26

Engine	**Standby rating**	**Prime rating**
Engine manufacturer	Cummins	
Engine model	6BTA5.9G2	
Configuration	4 Cycle; In-line; 6 Cylinder Diesel	
Aspiration	Turbo Charged and Charge Air Cooled	
Gross engine power output, kWm	145	132
BMEP at set rated load, kPa	1945	1750
Bore, mm	102	
Stroke, mm	120	
Rated speed, rpm	1500	
Piston speed, m/s	6	
Compression ratio	16.5:1	
Lube oil capacity, L	14.2	
Overspeed limit, rpm	2100 ±50	
Regenerative power, kW	12.7	
Governor type	Electronic	
Starting voltage	12 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	30
Maximum fuel inlet restriction, mm Hg	102
Maximum fuel inlet temperature (°C)	60

Air		
Combustion air, m^3/min	9	9
Maximum air cleaner restriction, kPa	6.2	

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Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m^3/min	25.3	23.3
Exhaust gas temperature, °C	591	561
Maximum exhaust back pressure, kPa	10	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, KW_m	4	
Coolant capacity (with radiator), L	9.9	
Cooling system air flow, m3/min @ 12.7mmH2O	2.3	
Total heat rejection, BTU/min	3800	2800
Maximum cooling air flow static restriction mmH2O	12.7	

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	150 (120)	145 (116)	136.8 (109.4)	124.5 (99.6)	112.1 (89.7)
Prime	136 (108.8)	131.9 (105.5)	124.4 (99.5)	113.1 (90.5)	102 (81.6)

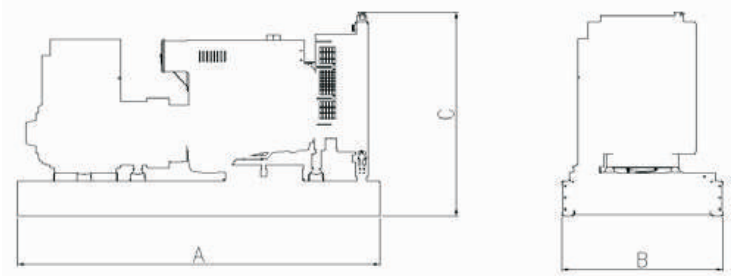
Weights*	Open	Enclosed
Unit dry weight kgs	1167	1856
Unit wet weight kgs	1206	2102

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

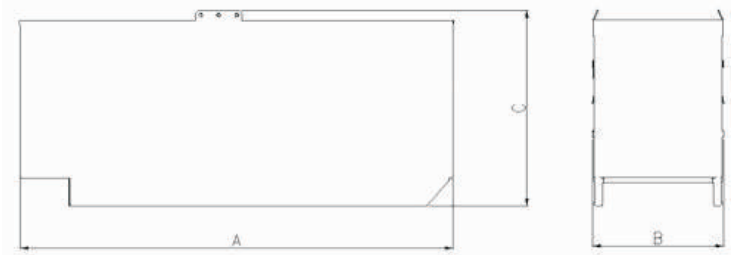
Dimensions	Length	Width	Height
Standard open set dimensions	2404	1100	1472
Enclosed set standard dimensions	2920	1136	1710

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	UC274E	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

$$\frac{kW \times SingleP\ haseFactor \times 1000}{Voltage}$$

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