FAMCO
هایپرصنعت

Model: C550 D5e
Frequency: 50
Fuel Type: Diesel

» Generator set data sheet

Cummins Power Generation

Our energy working for you.™

Spec sheet:	**SS11-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	550 (440)				500 (400)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
gph	8.0	13.6	19.3	26.7	7.3	12.6	17.7	22.9
L/hr	36.46	62.00	87.97	121.67	33.36	57.37	80.61	104.24

Engine	**Standby rating**	**Prime rating**
Engine manufacturer	Cummins	
Engine model	QSX15 G8	
Configuration	4 Cycle; In-Line; 6 Cylinder Diesel	
Aspiration	Turbo Charged and Charge Air Cooled	
Gross engine power output, kWm	500	444
BMEP at set rated load, kPa	2675	2371
Bore, mm	137	
Stroke, mm	169	
Rated speed, rpm	1500	
Piston speed, m/s	8.4	
Compression ratio	17:1	
Lube oil capacity, L	91	
Overspeed limit, rpm	1500 ±10%	
Regenerative power, kW	37	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	424
Maximum fuel inlet restriction, mm Hg	127
Maximum fuel inlet temperature (°C)	71

Air		
Combustion air, m^3/min	36.27	32.50
Maximum air cleaner restriction, kPa	3.73 - 6.22	

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روبـروی پالایشگاه نفت پـارس، پلاک ۱۲

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m^3/min	82.2	75.3
Exhaust gas temperature, °C	515	488
Maximum exhaust back pressure, kPa	10.2	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, KW_m	16	
Coolant capacity (with radiator), L	24	
Cooling system air flow, m3/sec @ 12.7mmH2O	11.35	
Total heat rejection, BTU/min	16700	13700
Maximum cooling air flow static restriction mmH2O	25.4	

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	550 (440)	550 (440)	550 (440)	540 (432)	523.8 (419)
Prime	500 (400)	500 (400)	500 (400)	491.3 (393)	472.5 (378)

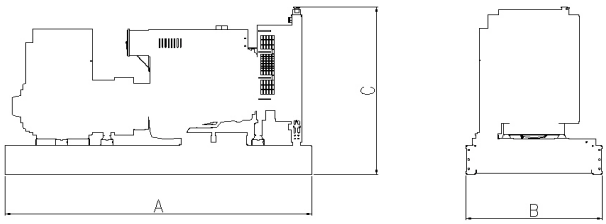
Weights*	Open	Enclosed
Unit dry weight kgs	4137	5442
Unit wet weight kgs	4975	6280

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

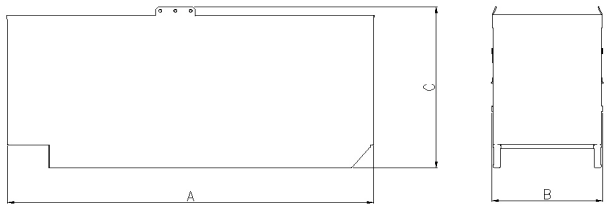
Dimensions	Length	Width	Height
Standard open set dimensions	3427	1500	2066
Enclosed set standard dimensions	5106	1553	2447

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.

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Alternator data

Feature code	Connection[1]	Temp rise degrees C	Duty[2]	Alternator	Voltage
B728	Wye, 3 Phase	125/105C	S/P	HC5E	380-440V
B726	Wye, 3 Phase	150/125C	S/P	HC5E	400V
0					

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) 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

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

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