

Model: C175D5e
 Frequency: 50
 Fuel Type: Diesel

» Generator set data sheet
 175kVA Standby @ 50Hz



**Power
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Spec sheet:	SS20-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:	TBA

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	175 (140)				160 (128)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	2.8	5.3	7.6	9.7	2.4	4.6	6.6	8.4
L/hr	13	24	35	44	11	21	30	38

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	QSB7G3	
Configuration	4 Cycle; In-line; 6 Cylinder Diesel	
Aspiration	Turbo Charged and Charge Air Cooled	
Gross engine power output, kWm	174	149
BMEP at set rated load, kPa	2075	1779
Bore, mm	107	
Stroke, mm	124	
Rated speed, rpm	1500	
Piston speed, m/s	6.2	
Compression ratio	17.3:1	
Lube oil capacity, L	17.5	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kW	14	
Governor type	Electronic	
Starting voltage	12 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	106
Maximum fuel inlet restriction, mm Hg	127
Maximum fuel inlet temperature (°C)	71

Air	
Combustion air, m ³ /min	11.76 10.92
Maximum air cleaner restriction, kPa	3.74



Exhaust

	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /min	31.38	28.38
Exhaust gas temperature, C	563	537
Maximum exhaust back pressure, kPa	10.13	

Standard set-mounted radiator cooling

Ambient design, °C	45	
Fan load, KW _m	13	
Coolant capacity (with radiator), L	36.37	
Cooling system air flow, m ³ /sec @ 12.7mmH ₂ O	3.1	
Total heat rejection, BTU/min	1396	1242
Maximum cooling air flow static restriction mmH ₂ O	0.12	

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	175 (140)	RTF	RTF	RTF	RTF
Prime	160 (128)	RTF	RTF	RTF	RTF

Weights*

	Open	Enclosed
Unit dry weight kgs	1467	2387
Unit wet weight kgs	2071	2991

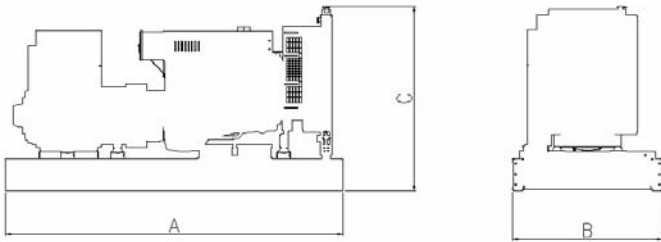
* Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions

	Length	Width	Height
Standard open set dimensions	2656	1000	1653
Enclosed set standard dimensions	3980	1100	2062

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	UCI274F	380-415V
B726	WYE	125/105	S/P	UCI274G	380-440V

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

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

Single phase output

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

See your distributor for more information.

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