

Generator set data sheet

Model: C175D5B
Frequency: 50
Fuel type: Diesel

Spec sheet:	EA_T_CC_9_EN V1_1606
Noise data sheet (open/enclosed):	
Airflow data sheet:	
Derate data sheet (open/enclosed):	
Transient data sheet:	

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	175(140)				159(127)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	2.42	4.62	6.82	9.24	2.2	4.18	6.16	8.36
L/hr	11	21	31	42	10	19	28	38
engine power (kw)	40	80	120	160	36.25	72.5	108.75	145

Engine	Standby rating	Prime rating
Engine manufacturer	Dofeng Cummins Engine Co.,LTD	
Engine model	6BTAA5.9-G15	
Configuration	4-cycle, In-line, 6-cylinder,	
Aspiration	Turbocharged & Charge Air Cooled	
Gross engine power output, kWm	160	145
Bore, mm	102	
Stroke, mm	120	
Rated speed, rpm	1500	
Piston speed, m/s	6	
Compression ratio	17.3 :1	
Lube oil capacity, L	16.4	
Overspeed limit, rpm	1800	
Regenerative power, kW	NA	
Governor type	Electronic	
Starting voltage	24V	

Fuel flow	
Maximum fuel flow, L/hr	42
Maximum fuel inlet restriction, mm Hg	101 / 203 (clean / dirty filter)

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Air	Standby rating	Prime rating
Combustion air, m3/min	10.56	9.78
Maximum air cleaner restriction, kPa	3.7 (clean element)	6.2 (dirty element)

Exhaust

Exhaust gas flow at set rated load, m3/min		
Exhaust gas temperature, °C	556	536
Maximum exhaust back pressure, kPa	10	

Standard set-mounted radiator cooling

Ambient design, °C	50*
Fan load, kWm	4.6
Coolant capacity (with radiator), L	35.9
Cooling system air flow, m3/sec @ 12.7 mmH2O	4.3 (open) 3.06(enclosed)
Total heat rejection, Btu/min	5390**
Maximum cooling air flow static restriction mm H2O	125kpa (open) 185kpa (enclosed)

*Based on cooling air flow static restriction 12.7mmH2O

**Total heat rejection includes jacket water circuit, aftercooler circuit, fuel circuit, heat radiated to room.

Weights*

	Open	Enclosed
Unit dry weight kgs	1517	2189
Unit wet weight kgs	1556	2228

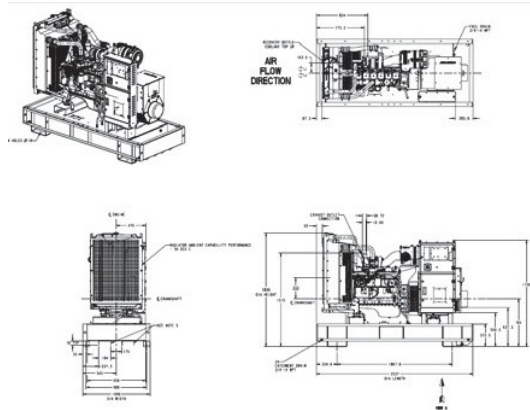
* Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions

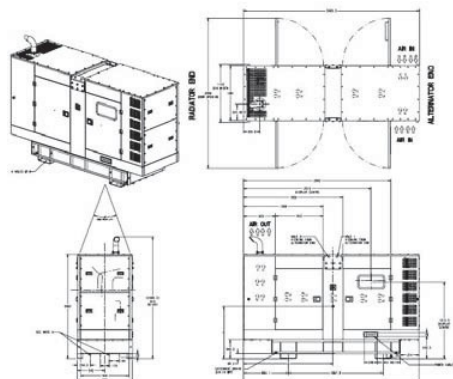
	Length(mm)	Width(mm)	Height(mm)
Standard open set dimensions	2537	1090	1846
Standard enclosed set dimensions	3460	1084	2386

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 °C	Duty*	Alternator	Voltage
WYE	163	S	UCI274F	190-208 & 380 - 416 V

* Standby (S), Prime (P) and Continuous ratings (C).

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 www.auts-power.com

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