

Generator set data sheet



Model: C1675 D5
Frequency: 50
Fuel type: Diesel
Kw rating: 1400 Data Center Continuous®

Fuel consumption	kVA (kW)			
Ratings	1400 (1120)			
Load	1/4	1/2	3/4	Full
US gph	21.7	40.9	58.7	76.3
L/hr	82	155	222	289

Engine

Engine manufacturer	Cummins
Engine model	KTA50-G8
Configuration	Cast iron, 60° V16 cylinder
Aspiration	Turbocharged and aftercooled
Gross engine power output, kWm	1200
BMEP at set rated load, kPa	1910
Bore, mm	159
Stroke, mm	159
Rated speed, rpm	1500
Piston speed, m/s	7.9
Compression ratio	14.9:1
Lube oil capacity, L	178
Overspeed limit, rpm	1725 ±50
Regenerative power, kW	116
Governor type	Electronic
Starting voltage	24V Volts DC

Fuel flow

Maximum fuel flow, L/hr	570
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

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Air

Combustion air, m ³ /min	90
Maximum air cleaner restriction, kPa	6.2

Exhaust

Exhaust gas flow at set rated load, m ³ /min	231
Exhaust gas temperature, °C	485
Maximum exhaust back pressure, kPa	6.7

Standard set-mounted radiator cooling

Ambient design, °C	40
Fan load, kWm	30
Coolant capacity (with radiator), L	496
Cooling system air flow, m ³ /sec @ 12.7 mmH ₂ O	21.7
Total heat rejection, Btu/min	42210
Maximum cooling air flow static restriction mm H ₂ O	12.7

Weights*

	Open
Unit dry weight kgs	10348
Unit wet weight kgs	10967

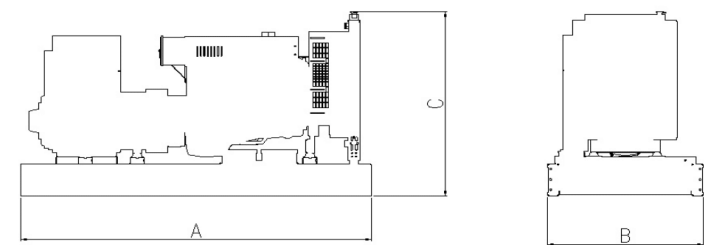
* Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions

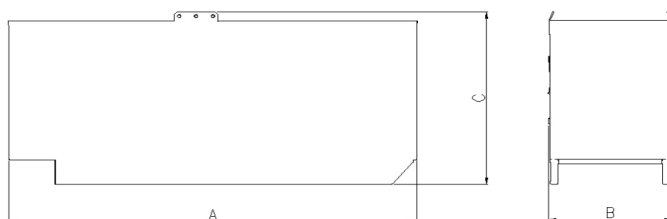
	Length	Width	Height
Standard open set dimensions	5811	2033	2330

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

Connection	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	125/40	DCC	P7D	380-480V

Ratings definitions

Data Center Continuous® (DCC)	Applicable for supplying power continuously to a constant or varying electrical load for unlimited hours in a data center application.
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Formulas for calculating full load currents:

Three phase output

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

See your distributor for more information.

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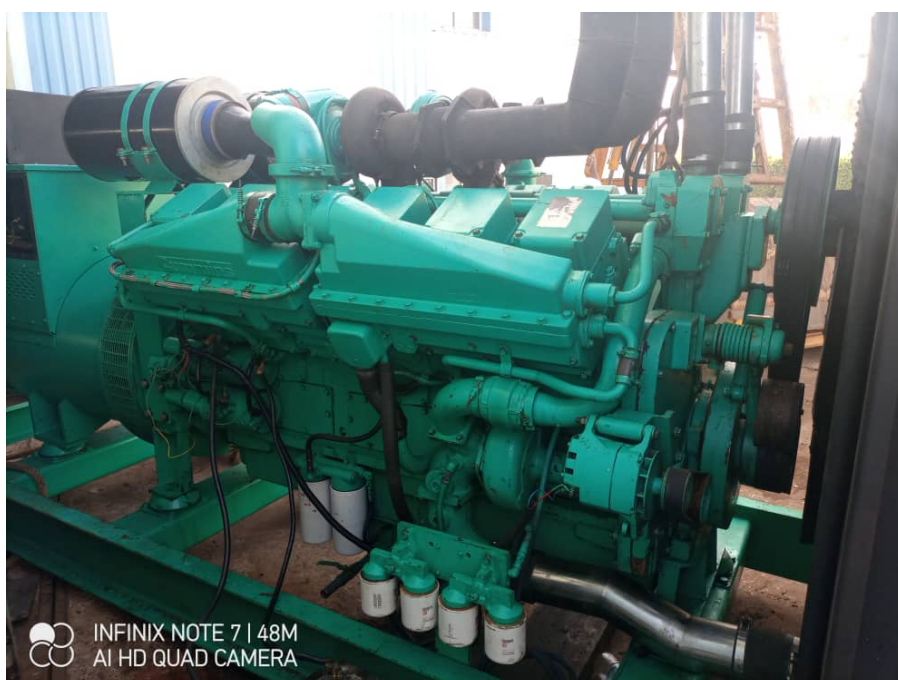
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