

## Generator set data sheet

**Model:** C1100 D5  
**Frequency:** 50  
**Fuel type:** Diesel  
**kVA rating:** 1000 Data Center Continuous

<b>Spec sheet:</b>	<b>SS14-CPGK-DC50</b>
<b>Noise data sheet (open/enclosed):</b>	<b>ND50-OSHHP/ND50-CS550</b>
<b>Airflow data sheet:</b>	<b>AF50-HHP</b>
<b>Derate data sheet (open/enclosed):</b>	<b>DD50-OSHHP/DD50-CSHHP</b>
<b>Transient data sheet:</b>	<b>TD50-HHP</b>

### Fuel consumption kVA (kW)

Ratings	1000 (800)			
Load	1/4	1/2	3/4	Full
<b>gph</b>	11.9	22.4	33.2	44.4
<b>L/hr</b>	54.0	102.0	151.0	202.0

### Engine

Engine manufacturer	Cummins
Engine model	QST30-G4
Configuration	Cast iron, 50° V12 cylinder
Aspiration	Turbo charged and charge air cooled
Gross engine power output, kWm	880
BMEP at set rated load, kPa	2310
Bore, mm	140
Stroke, mm	165
Rated speed, rpm	1500
Piston speed, m/s	8.3
Compression ratio	14:1
Lube oil capacity, L	154
Overspeed limit, rpm	2100 ±50
Regenerative power, kW	58
Governor type	Electronic
Starting voltage	24 Volts DC

### Fuel flow

Maximum fuel flow, L/hr	550
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	71

## Air

Combustion air, m <sup>3</sup> /min	56.70
Maximum air cleaner restriction, kPa	6.2

## Exhaust

Exhaust gas flow at set rated load, m <sup>3</sup> /min	164.7
Exhaust gas temperature, °C	565
Maximum exhaust back pressure, kPa	6.8

## Standard set-mounted radiator cooling

Ambient design, °C	40
Fan load, kW <sub>m</sub>	27
Coolant capacity (with radiator), L	192
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mmH <sub>2</sub> O	12.6
Total heat rejection, Btu/min	26390
Maximum cooling air flow static restriction, mm H <sub>2</sub> O	19.1

## Weights\*

	Open	Enclosed
Unit dry weight, kgs	7416	N/A
Unit wet weight, kgs	7621	N/A

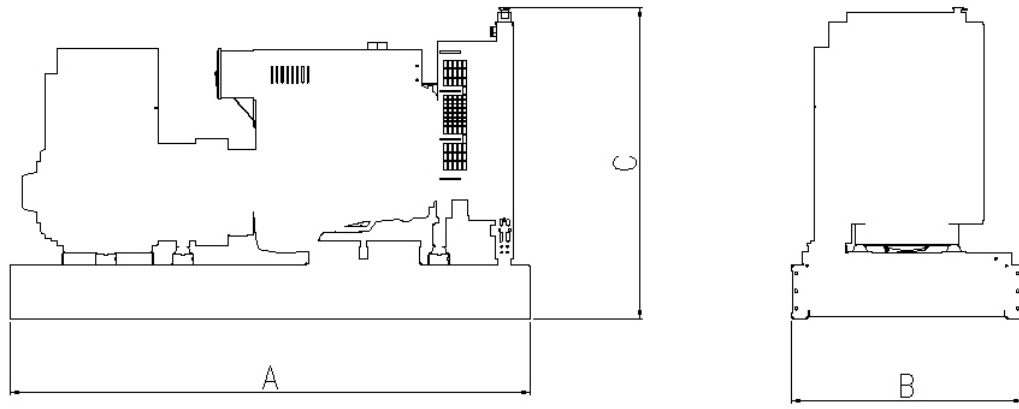
\* Weights represent a set with standard features. See outline drawing for weights of other configurations.

## Dimensions

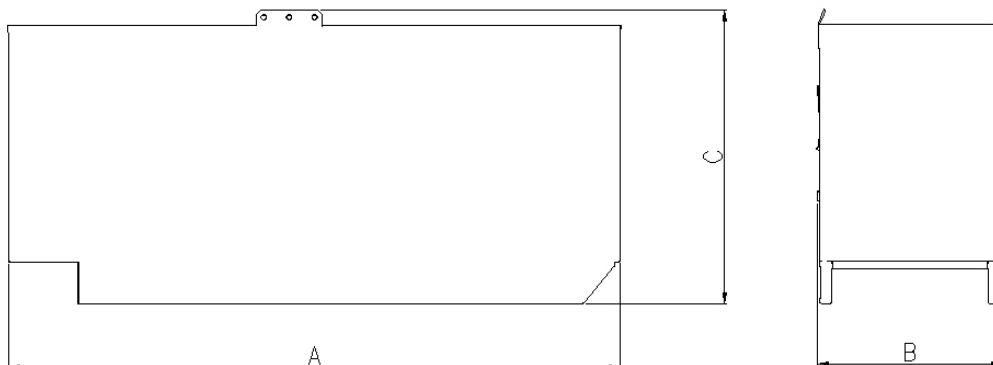
	Length	Width	Height
Standard open set dimensions, mm	4417	2000	2387
Enclosed set standard dimensions, mm	N/A	N/A	N/A

## 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, 3-phase	150/125 C	S/P	HC6K	380-440V

## Ratings definitions

**Data Center Continuous (DCC):** Applicable for supplying power continuously to a constant electrical load for unlimited hours in a data center application where a reliable utility is present. The Data Center Continuous (DCC) power rating is in accordance with ISO8528.

## 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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