

## Generator set data sheet



**Model:** C1100 D5  
**Frequency:** 50 Hz  
**Fuel type:** Diesel  
**kW rating:** 1000 Data Center Continuous (DCC)

<b>Spec sheet:</b>	SS14-CPGK-DC50
<b>Noise data sheet (open/enclosed):</b>	ND50-OSHHP/ND50-CS550
<b>Cooling system data:</b>	MCP-1038

Fuel consumption	kVA (kW)			
	1/4	1/2	3/4	Full
Ratings	1000 (800)			
Load	1/4	1/2	3/4	Full
US gph	14.2	26.9	39.8	53.2
L/hr	54	102	151	202

### Engine

Engine manufacturer	Cummins
Engine model	QST30-G4
Configuration	Cast iron, 50° V12 cylinder
Aspiration	Turbocharged 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	133
Overspeed limit, rpm	1725 ±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	165
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 mm H <sub>2</sub> O	12.6
Total heat rejection, Btu/min	26390
Maximum cooling air flow static restriction mm H <sub>2</sub> O	12.7

## Weights\*

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

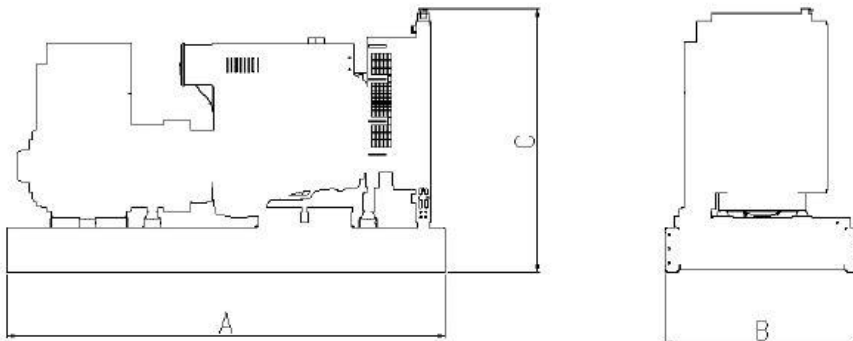
\* Weights represent a set with standard features. See outline drawing for weights of other configurations.

## 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



## Alternator data

Connection	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	150/125	DCC	HC6K	380-440

## 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

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

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