

## Generator set data sheet



**Model:** C825 D5A  
**Frequency:** 50 Hz  
**Fuel type:** Diesel  
**kVA rating:** 750 Data Center Continuous (DCC)

<b>Spec sheet:</b>	SS13-CPGK
<b>Noise data sheet (open/enclosed):</b>	ND50-OSHHP/ND50-CS550
<b>Cooling system data:</b>	MCP-1034

Fuel consumption	kVA (kW)			
	1/4	1/2	3/4	Full
Ratings	750 (600)			
Load	1/4	1/2	3/4	Full
US gph	7.9	16.0	24.2	32.3
L/hr	36.0	73.0	110.0	147.0

### Engine

Engine manufacturer	Cummings
Engine model	VTA28-G6
Configuration	Cast iron, 40° V12 cylinder
Aspiration	Turbocharged and after-cooled
Gross engine power output, kW <sub>m</sub>	656
BMEP at set rated load, kPa	1874
Bore, mm	140
Stroke, mm	152
Rated speed, rpm	1500
Piston speed, m/s	7.6
Compression ratio	13:1
Lube oil capacity, L	83
Overspeed limit, rpm	1725 ±50
Regenerative power, kW	75
Governor type	Electronic
Starting voltage	24 Volts DC

### Fuel flow

Maximum fuel flow, L/hr	448
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

## Air

Combustion air, m <sup>3</sup> /min	49.00
Maximum air cleaner restriction, kPa	6.2

## Exhaust

Exhaust gas flow at set rated load, m <sup>3</sup> /min	120.0
Exhaust gas temperature, °C	464
Maximum exhaust back pressure, kPa	10.1

## Standard set-mounted radiator cooling

Ambient design, °C	40
Fan load, kW <sub>m</sub>	19.6
Coolant capacity (with radiator), L	182
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	14.5
Total heat rejection, Btu/min	27795
Maximum cooling air flow static restriction mm H <sub>2</sub> O	12.7

## Weights\*

	Open	Enclosed
Unit dry weight, kgs	5645	RTF
Unit wet weight, kgs	5844	RTF

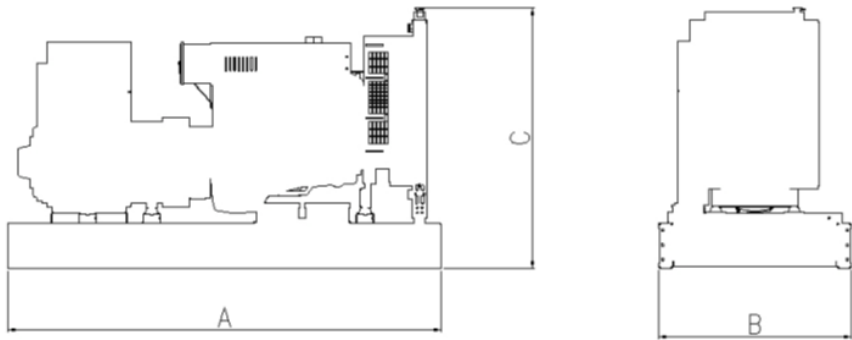
\* Weights represent a set with standard features. See outline drawing for weights of other configurations.

## Dimensions

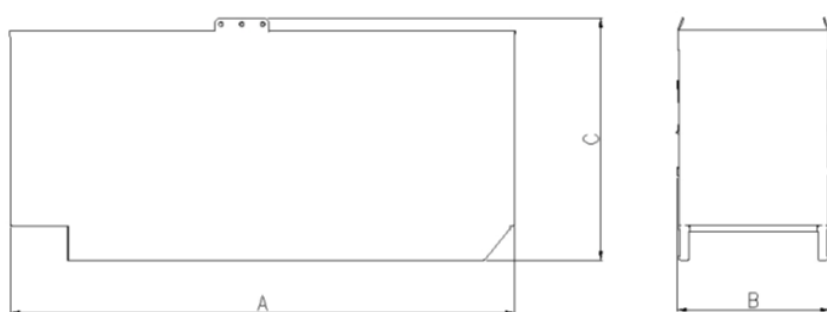
	Length	Width	Height
Standard open set dimensions, mm	4047	1609	2179
Enclosed set standard dimensions, mm	RTF	RTF	RTF

## 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	S/P	HC6G	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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