



» Generator set data sheet

**Model:** C825 D5A  
**Frequency:** 50  
**Fuel Type:** Diesel

<b>Spec sheet:</b>	SS12-CPGK
<b>Noise data sheet (Open/enclosed):</b>	ND50-OSHHP / ND50-CS550
<b>Airflow data sheet:</b>	AF50-HHP
<b>Derate data sheet (Open/enclosed):</b>	DD50-OSHHP / DD50-CSHHP
<b>Transient data sheet:</b>	TD50-HHP

<b>Fuel consumption</b>	Standby				Standby			
	kVA (kW)				kVA (kW)			
Ratings	825 (660)				750 (600)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	8.8	17.8	26.6	35.6	7.9	16.0	24.2	32.3
L/hr	40.00	81.00	121.00	162.00	36.00	73.00	110.00	147.00

<b>Engine</b>	Standby Rating		Standby Rating
Engine manufacturer	Cummins		
Engine model	VTA28-G6		
Configuration	Cast Iron, 40° V12 Cylinder		
Aspiration	Turbo Charged and After-Cooled		
Gross engine power output, kWm	722		656
BMEP at set rated load, kPa	2062		1874
Bore, mm	139.7		
Stroke, mm	139.7		
Rated speed, rpm	1500		
Piston speed, m/s	7.6		
Compression ratio	13:1		
Lube oil capacity, L	83		
Overspeed limit, rpm	1850 ±50		
Regenerative power, kW	75		
Governor type	Electronic		
Starting voltage	24 Volts DC		

<b>Fuel flow</b>	
Maximum fuel flow, L/hr	448
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	60

Air	Standby Rating	Standby Rating
Combustion air, m <sup>3</sup> /min	55.00	49.00
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m <sup>3</sup> /min	132.0	120.0
Exhaust gas temperature, °C	489	464
Maximum exhaust back pressure, kPa	10.1	

Standard set-mounted radiator cooling		
Ambient design, °C	40	
Fan load, KW <sub>m</sub>	19	
Coolant capacity (with radiator), L	162	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7mmH <sub>2</sub> O	12.45	
Total heat rejection, BTU/min	32700	27795
Maximum cooling air flow static restriction mmH <sub>2</sub> O	25.4	

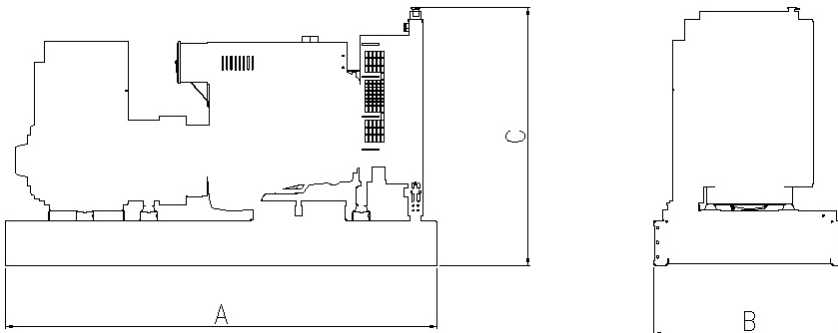
Weights*	Open	Enclosed
Unit dry weight kgs	5771	RTF
Unit wet weight kgs	6040	RTF

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

Dimensions	Length	Width	Height
Standard open set dimensions	4047	1608	2187
Enclosed set standard dimensions	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 <sup>1</sup>	Temp rise °C	Duty <sup>2</sup>	Alternator	Voltage
Wye, 3 Phase	150/125C	S/P	HC6G	380-440V

## 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) 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

$$\frac{\text{kW} \times \text{Single Phase Factor} \times 1000}{\text{Voltage}}$$

### See your distributor for more information.

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