

## Generator set data sheet



**Model:** C825 D5  
**Frequency:** 50 Hz  
**Fuel type:** Diesel

<b>Spec sheet:</b>	<b>SS12-CPGK</b>
<b>Sound Data Sheet</b>	<b>MSP-3098</b>
<b>Cooling System Data</b>	<b>MCP-2045</b>

<b>Fuel consumption</b>	<b>Standby</b>				<b>Prime</b>			
	<b>kVA (kW)</b>				<b>kVA (kW)</b>			
Ratings	825 (660)				750 (600)			
Load	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>
US gph	13.2	22.7	32.8	43.6	12.4	20.9	30.0	39.6
L/hr	50.1	86.0	124.2	165.2	46.8	79.2	113.5	150.1

<b>Engine</b>	<b>Standby rating</b>	<b>Prime rating</b>
Engine manufacturer	Cummins	
Engine model	QSK23-G3	
Configuration	Cast iron, in-line 6 cylinder	
Aspiration	Turbocharged and after-cooled	
Gross engine power output, kWm	768	701
BMEP at set rated load, kPa	2427	2268
Bore, mm	170	
Stroke, mm	170	
Rated speed, rpm	1500	
Piston speed, m/s	8.6	
Compression ratio	16:1	
Lube oil capacity, L	103	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kW	72	
Governor type	Electronic	
Starting voltage	24 Volts DC	

<b>Fuel flow</b>	
Maximum fuel flow, L/hr	684
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

<b>Air</b>	<b>Standby rating</b>	<b>Prime rating</b>
Combustion air, m <sup>3</sup> /min	53.3	48.7
Maximum air cleaner restriction, kPa	6.2	

### Exhaust

Exhaust gas flow at set rated load, m <sup>3</sup> /min	147.78	135.54
Exhaust gas temperature, °C	543	532
Maximum exhaust back pressure, kPa	10.1	

### Standard set-mounted radiator cooling

Ambient design, °C	40	
Fan load, kW <sub>m</sub>	14.4	
Coolant capacity (with radiator), L	103	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	11.6	11.6
Total heat rejection, Btu/min	23265	18612
Maximum cooling air flow static restriction mm H <sub>2</sub> O	25.4	25.4

### Optional set-mounted radiator cooling

Ambient design, °C	50	
Fan load, kW <sub>m</sub>	14.4	
Coolant capacity (with radiator), L	103	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	11.6	11.6
Total heat rejection, Btu/min	23265	18612
Maximum cooling air flow static restriction mm H <sub>2</sub> O	25.4	25.4

### Weights\*

	<b>Open</b>	<b>Enclosed</b>
Unit dry weight kgs	6219	N/A
Unit wet weight kgs	6371	N/A

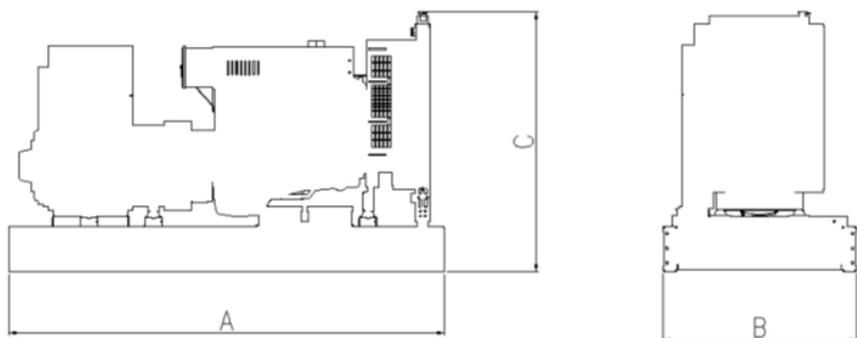
\* Weights represent a set with standard features. See outline drawing for weights of other configurations.

### Dimensions

	<b>Length</b>	<b>Width</b>	<b>Height</b>
Standard open set dimensions mm	4318	1856	2148
Enclosed set standard dimensions mm	N/A	N/A	N/A

### Genset outline

#### Open 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	163	S/P	HCI6G	380-440 V
Wye, 3-phase	105*	P	HCI6G	380-440 V

\*Option available only through ETO (Engineering to Order)

## 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) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

## Formulas for calculating full load currents:

Three phase output	Single phase output
$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$	$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$

For more information contact your local Cummins distributor or visit [power.cummins.com](http://power.cummins.com)

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