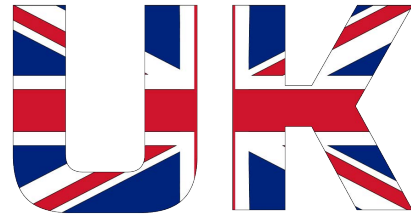


» Generator set data sheet



# GENERATORS

**Model:** C825 D5  
**Frequency:** 50  
**Fuel Type:** Diesel

<b>Spec sheet:</b>	SS11-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				Prime			
	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	10.3	19.1	27.8	36.5	9.5	17.5	25.4	33.3
L/hr	46.9	86.7	126.4	166.2	43.2	79.5	115.5	151.4

<b>Engine</b>	Standby Rating	Prime Rating
Engine manufacturer	Cummins	
Engine model	QSK23-G3	
Configuration	Cast Iron, In-line 6 Cylinder	
Aspiration	Turbo Charged 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	8.51	
Compression ratio	16:1	
Lube oil capacity, L	102	
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	685
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	71

Air	Standby Rating	Prime Rating
Combustion air, m <sup>3</sup> /min	49.30	46.80
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m <sup>3</sup> /min	140.1	131.0
Exhaust gas temperature, °C	550	541
Maximum exhaust back pressure, kPa	10.1	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, KW <sub>m</sub>	16	
Coolant capacity (with radiator), L	89	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7mmH <sub>2</sub> O	14.7	
Total heat rejection, BTU/min	20965	19196
Maximum cooling air flow static restriction mmH <sub>2</sub> O	19.1	

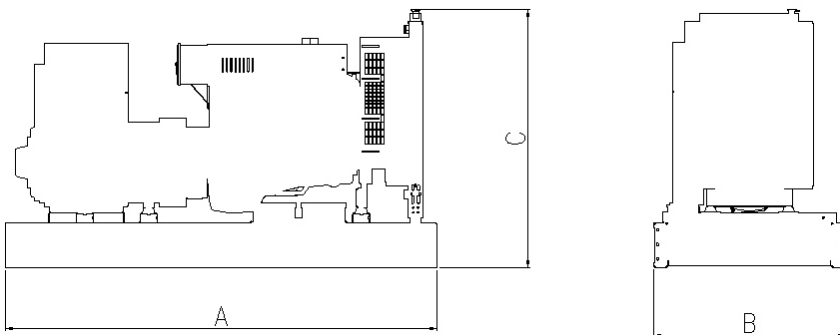
Weights*	Open	Enclosed
Unit dry weight kgs	6387	N/A
Unit wet weight kgs	6528	N/A

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

Dimensions	Length	Width	Height
Standard open set dimensions	4266	1879	2052
Enclosed set standard dimensions	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 <sup>1</sup>	Temp rise °C	Duty <sup>2</sup>	Alternator	Voltage
Wye, 3 Phase	163	S	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

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