Model: C825 D5A

Frequency: 50 Fuel Type: Diesel

# » Generator set data sheet 825 kVA Standby



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	Stand	Standby			Prime	Prime		
Fuel consumption	kW (k	kW (kVA)		kW (kVA)				
Ratings	660 (82	660 (825)		600 (7	600 (750)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	10.6	21.4	32.0	42.8	9.5	19.3	29.1	38.8
L/hr	40	81	121	162	36	73	110	147

Engine	Standby rating	Prime rating	
Engine manufacturer	Cummins		
Engine model	VTA28G6		
Configuration	4-Cycle; 40° Vee; 12-0	Cylinder Diesel	
Aspiration	Turbocharged and After	ercooled	
Gross engine power output, kWm	733	656	
BMEP at set rated load, kPa	2062	1874	
Bore, mm	140		
Stroke, mm	152		
Rated speed, rpm	1500		
Piston speed, m/s	7.6		
Compression ratio	13.1:1		
Lube oil capacity, L	68		
Overspeed limit, rpm	1800 ±50		
Regenerative power, kWm	78		
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)	60		
Air			
Combustion air, m <sup>3</sup> /min	55	49	
Maximum air cleaner restriction, mm H <sub>2</sub> O	635		

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m <sup>3</sup> /min	132.8	120
Exhaust gas temperature, °C	489	464
Maximum exhaust back pressure, mmHg	76	

## Standard set-mounted radiator cooling

	•		
Ambient design, °C	40		
Fan load, KW <sub>m</sub>	20		
Coolant capacity (with radiator), L	162	162	
Cooling system air flow, m³/min @ 12.7mmH <sub>2</sub> O	1080		
Total heat rejection, BTU/min	32700	27795	
Maximum cooling air flow static restriction mmH <sub>2</sub> O	12.7		

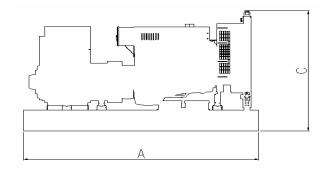
Weights*	Open	Enclosed
Unit dry weight kgs	6278	N.A.
Unit wet weight kgs	6568	N.A.

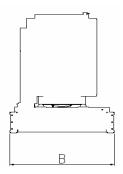
<sup>\*</sup> Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	4080	1756	2181
Enclosed set standard dimensions, mm	20' container	-	-

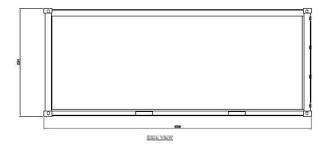
#### **Genset outline**

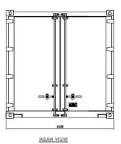
#### Open set





## **Enclosed set**





Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

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### **Alternator data**

Feature code	Connection <sup>1</sup>	Temp rise	Duty <sup>2</sup>	Alternator	Voltage
-	Wye, 3 Phase	163/125	S/P	HC6G	380-415V

## **Ratings definitions**

Standby:	Limited Time Running:	Prime (unlimited running time):	Base Load (Continuous):
varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power is in accordance with ISO 8528. Ten percent overload capability is available in accordance with	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous power in

#### Notes:

- 1. Limited single phase capability is available from some three phase rated configurations. To obtain single phase rating, multiply the three phase kW rating by the single phase factor. All single phase ratings are at unity power factor.
- 2. Standby (S) and Prime (P) ratings.

## Formulas for calculating full load currents:

Three phase output Single phase output

 kW x 1000
 kW x 1000

 Voltage x 1.732 x 0.8
 Voltage

See your distributor for more information.

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