

Model: C825 D5A
 Frequency: 50
 Fuel Type: Diesel

» Generator set data sheet

825 kVA Standby



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Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	660 (825)				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-Cylinder Diesel	
Aspiration	Turbocharged and Aftercooled	
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 ³ /min	55
Maximum air cleaner restriction, mm H ₂ O	635

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /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 _m	20	
Coolant capacity (with radiator), L	162	
Cooling system air flow, m ³ /min @ 12.7mmH ₂ O	1080	
Total heat rejection, BTU/min	32700	27795
Maximum cooling air flow static restriction mmH ₂ O	12.7	

Weights*

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

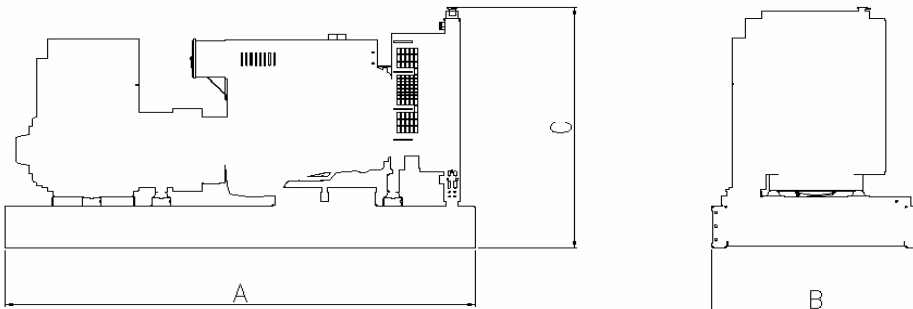
* Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions

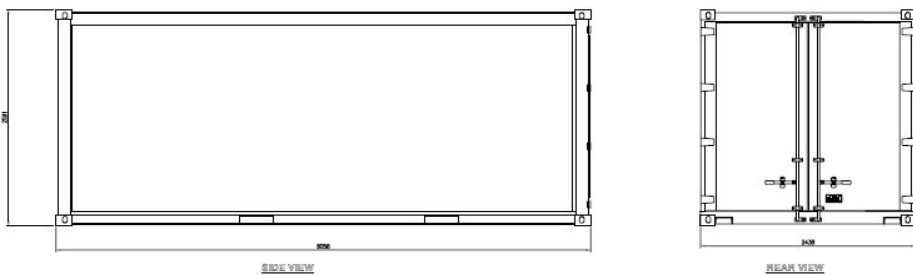
	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	4080	1756	2181
Enclosed set standard dimensions, mm	20' container	-	-

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 ¹	Temp rise	Duty ²	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):
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 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 ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous power in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Notes:

- 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.
- Standby (S) and Prime (P) ratings.

Formulas for calculating full load currents:

Three phase output

Single phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.732 \times 0.8}$$

$$\frac{\text{kW} \times 1000}{\text{Voltage}}$$

See your distributor for more information.

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