

Model: C825 D5E
 Frequency: 50
 Fuel Type: Diesel

» Generator set data sheet
 825 kVA Standby



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Spec sheet:	SS14-CPGK
Noise data sheet (Open/enclosed):	ND50-OSHHP / ND50-CS550
Airflow data sheet:	AF50-HHP
Derate data sheet (Open/enclosed):	DD50-OSHHP / DD50-CSHHP
Transient data sheet:	TD50-HHP

Fuel consumption	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
US gph	10.9	19.6	30.0	40.9	11.4	20.9	29.0	36.9
L/hr	50	89	136	186	52	95	132	168

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	KTA38-G7	
Configuration	Cast Iron, 60° V12 Cylinder	
Aspiration	Turbo Charged and After-Cooled	
Gross engine power output, kW/m	895	806
BMEP at set rated load, kPa	1896	1710
Bore, mm	159	
Stroke, mm	159	
Rated speed, rpm	1500	
Piston speed, m/s	7.9	
Compression ratio	16.7:1	
Lube oil capacity, L	155	
Overspeed limit, rpm	1850 ±50	
Regenerative power, kW	86	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	454
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	70

Air	
Combustion air, m³/min	71.3 67.7
Maximum air cleaner restriction, kPa	6.2



Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /min	176	165.2
Exhaust gas temperature, °C	486	480
Maximum exhaust back pressure, kPa	6.8	

Standard set-mounted radiator cooling		
Ambient design, °C	40	
Fan load, KW _m	31	
Coolant capacity (with radiator), L	464	
Cooling system air flow, m ³ /min @ 12.7mmH ₂ O	23.4	
Total heat rejection, BTU/min	35000	30690
Maximum cooling air flow static restriction mmH ₂ O	19.1	

Open set derating factors kVA (kW)

Note: Standard open genset options running at 400V, 150m above sea level. For enclosed product derates, please refer to datasheet - DD50-CSHHP.

	27°C	40°C	45°C	50°C	55°C
Standby	825 (660)	825 (660)	RTF	RTF	RTF
Prime	750 (600)	750 (600)	RTF	RTF	RTF

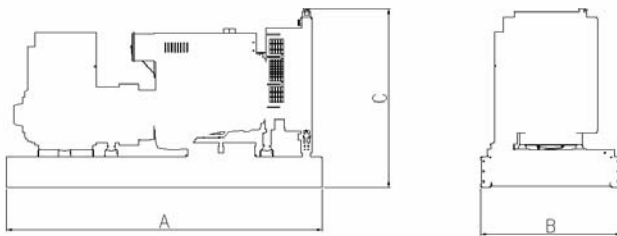
Weights*	Open	Enclosed
Unit dry weight kgs	7362	N/A
Unit wet weight kgs	7752	N/A

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

Dimensions	Length	Width	Height
Standard open set dimensions	4375	2033	2856
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

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
B613	Wye, 3 Phase	163	S	HC6G	380-440V
B668	Wye, 3 Phase	125/105	S/P	HC6H	380-440V

Ratings definitions

Emergency Standby Power (ESP)	Limited-Time running Power	Prime Power (PRP):	Base Load (Continuous) Power
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

$$\frac{kW \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

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

See your distributor for more information.

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