

» Generator set data sheet

Model: C825 D5 Frequency: 50 Fuel Type: Diesel

Fuel flow

Maximum fuel flow, L/hr

Maximum fuel inlet restriction, mm Hg

Maximum fuel inlet temperature (°C)

Spec sheet: Noise data sheet (Open/enclosed): Airflow data sheet: Derate data sheet (Open/enclosed):			SS11-CP	SS11-CPGK ND50-OSHHP / ND50-CS550 AF50-HHP DD50-OSHHP / DD50-CSHHP				
			ND50-OS					
			AF50-HH					
			DD50-OS					
Transient data sheet:		TD50-HHP						
	Standby	Standby kVA (kW)		Data Center Continuous				
Fuel consumption	kVA (kW			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	46.90	86.70	126.40	166.20	43.20	79.50	115.50	151.40
Engine Engine manufacturer		Standby rating Data Center Continuous Cummins				ous		
Engine model		QSK23-G3						
Configuration		Cast Iron, In-line 6 Cylinder						
Aspiration			Turbo Ch	arged and Af	ter-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					

685

203 71

Air	Standby rating	Data Center Continuous
Combustion air, m ³ /min	49.30	46.80
Maximum air cleaner restriction, kPa	6.2	·
Exhaust		
Exhaust gas flow at set rated load, m³/min	140.1	131
Exhaust gas temperature, °C	550	541
Maximum exhaust back pressure, kPa	10.1	
Standard set-mounted radiator cooling Ambient design, °C Fan load, KW _m	50	
Coolant capacity (with radiator), L	89	_
Cooling system air flow, m3/sec @ 12.7mmH2O	14.7	
Total heat rejection, BTU/min	20965	19196
Maximum cooling air flow static restriction mmH2O	19.1	•
	•	
Weights*	Open	Enclosed

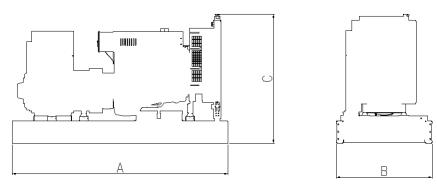
Weights*	Open	Enclosed
Unit dry weight kgs	6387	N/A
Unit wet weight kgs	6528	N/A

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

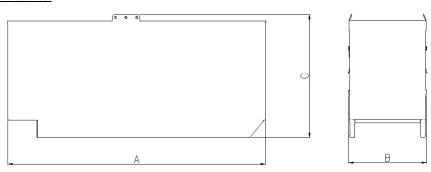
Dimensions	Length	Width	Height
Standard open set dimensions	4266	1879	2052
Enclosed set standard dimensions	N/A	N/A	N/A

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 ¹	Temp rise °C	Duty ²	Alternator	Voltage
Wye, 3 Phase	163	S	HC6G	380-440V

Ratings definitions

Emergency Standby Power (ESP)	Limited-Time running Power (LTP):	Prime Power (PRP)	Data Center 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 back-up power for data center applications evaluated at specific site conditions. This rating is based on load profiles and performance requirements consistent with the data center industry. This rating is site specific and changes in application type or location would require further consideration.

Formulas for calculating full load currents:

Three phase output Single phase output

kWx1000 kWxSinglePhaseFactorx1000

Voltagex1.73x0.8

Voltage

See your distributor for more information.

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