

Generator set data sheet



Model: C825 D5 Frequency: 50 Hz

Fuel type: Diesel

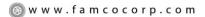
Spec sheet:	SS12-CPGK
Sound Data Sheet	MSP-3098
Cooling System Data	MCP-2095

	Standby	Standby		Prime kVA (kW)				
Fuel consumption	kVA (kV	kVA (kW)						
Ratings	825 (660	825 (660)		750 (600)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	14.0	23.7	33.1	43.7	13.0	22.0	30.5	39.6
L/hr	53.0	89.9	125.3	165.3	49.2	83.4	115.4	149.8

Engine	Standby rating	Prime rating	
Engine manufacturer	Cummins		
Engine model	QSK23-G3		
Configuration	Cast iron, in-line 6 cyli	Cast iron, in-line 6 cylinder	
Aspiration	Turbocharged and after	er-cooled	
Gross engine power output, kWm	768	701	
BMEP at set rated load, kPa	2350	2441	
Bore, mm	170		
Stroke, mm	170		
Rated speed, rpm	1500		
Piston speed, m/s	8.6		
Compression ratio	16:1		
Lube oil capacity, L	103		
Overspeed limit, rpm	1800		
Regenerative power, kW	72	72	
Governor type	Electronic	Electronic	
Starting voltage	24 Volts DC	24 Volts DC	

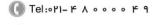
Fuel flow

Maximum fuel flow, L/hr	684
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70





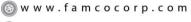






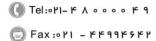
Air	Standby rating		Prime ratin	g
Combustion air, m³/min	53.3		48.7	
Maximum air cleaner restriction, kPa	6.2			
Exhaust				
Exhaust gas flow at set rated load, m³/min	147.78		135.54	
Exhaust gas temperature, °C	543		532	
Maximum exhaust back pressure, kPa	10.2			
Standard set-mounted radiator cooling				
Ambient design, °C (open genset at 12.7mm H ₂ O)	40			
Fan load, kW _m	24.9			
Coolant capacity (with radiator), L	136.5			
Cooling system air flow, m³/sec @ 12.7 mm H ₂ O	8.2			
Total heat rejection, Btu/min	12636		12252	
Maximum cooling air flow static restriction mm H ₂ O	25.4		25.4	
Standard set-mounted radiator cooling value Ambient design, °C	when IBC is sele	ected		
Fan load, kW _m	14.3			
	109.5			
Cooling system air flow, m³/sec @ 12.7 mm H ₂ O	11.6		T	
Total heat rejection, Btu/min	11.6 12636		12252	
Cooling system air flow, m³/sec @ 12.7 mm H ₂ O	11.6		12252 25.4	
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Cooling system air flow, m³/sec @ 12.7 mm H ₂ O Total heat rejection, Btu/min Maximum cooling air flow static restriction mm H ₂ O Optional set-mounted radiator cooling (Ambient design, °C (open genset at 12.7mm H ₂ O) Fan load, kW _m Coolant capacity (with radiator), L	11.6 12636 25.4 All config) 50 14.3			
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Note: Weights and dimensions represent a set with standard features. See outline drawing for weights of other configurations.





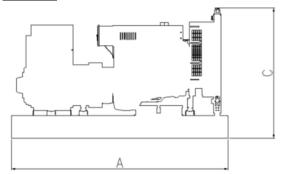


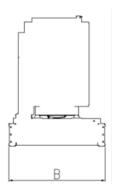




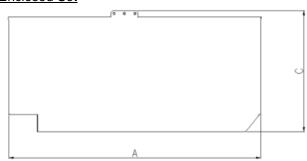
Genset outline

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	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	163	S/P	S6L1D-C4/D4	380-440 V

Ratings definitions

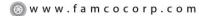
	rtainige acimination				
Emergency Standby Power (ESP):		Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):	
	Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) 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) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.	

Formulas for calculating full load currents:

Three phase output Single phase output

kW x 1000 kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8 Voltage



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