

### **Generator set data sheet**



Model: C900 D5
Frequency: 50 Hz
Fuel type: Diesel

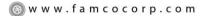
Spec sheet:	SS12-CPGK
Sound Data Sheet	MSP-3099
Cooling System Data	MCP-2097

	Standby	Standby			Prime			
Fuel consumption	nption kVA (kW) kVA (kW)			kVA (kW)				
Ratings	900 (720	900 (720)			820 (656)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	15.0	25.4	35.8	48.2	13.9	23.6	32.8	43.3
L/hr	56.7	96.2	135.4	182.5	52.6	89.3	124.2	163.8

Engine	Standby rating	Prime rating		
Engine manufacturer	Cummins	·		
Engine model	QSK23-G3			
Configuration	Cast iron, in-line 6 cylin	Cast iron, in-line 6 cylinder		
Aspiration	Turbocharged and afte	r-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	1500		
Piston speed, m/s	8.6	8.6		
Compression ratio	16:1	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			

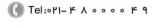
# **Fuel flow**

Maximum fuel flow, L/hr	685
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70





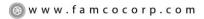






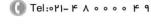
Air	Standby rating	I	Prime rating	
Combustion air, m³/min			48.70	
Maximum air cleaner restriction, kPa	6.2			
Exhaust				
Exhaust gas flow at set rated load, m³/min	147.8		135.6	
Exhaust gas temperature, °C	543		532	
Maximum exhaust back pressure, kPa	10.2		J	
Standard set-mounted radiator cooling				
Ambient design, °C (open genset at 12.7mm H <sub>2</sub> O)	40			
Fan load, kW <sub>m</sub>	24.9			
Coolant capacity (with radiator), L	136.5			
Cooling system air flow, m³/sec @ 12.7 mm H <sub>2</sub> O	8.2			
Total heat rejection, Btu/min	12636		12252	
Maximum cooling air flow static restriction mm H <sub>2</sub> O	25.4		25.4	
Standard set-mounted radiator cooling	when IBC is se	elected		
Ambient design, °C	40			
Fan load, kW <sub>m</sub>	14.3			
Coolant capacity (with radiator), L	109.5			
Cooling system air flow, m³/sec @ 12.7 mm H <sub>2</sub> O	11.6			
Total heat rejection, Btu/min	12636 12		12252	
Maximum cooling air flow static restriction mm H <sub>2</sub> O	25.4		25.4	
Optional set-mounted radiator cooling (	(All config)			
Ambient design, °C (open genset at 12.7mm H <sub>2</sub> O)	50			
Fan load, kW <sub>m</sub>	14.3			
Coolant capacity (with radiator), L	109.5			
Cooling system air flow, m³/sec @ 12.7 mm H <sub>2</sub> O	11.6			
Total heat rejection, Btu/min	12636 1		12252	
Maximum cooling air flow static restriction mm H <sub>2</sub> O			25.4	
Weights	Open	Enclosed	d	
Unit dry weight kgs	6091 9868			
Unit wet weight kgs	6289	9984		
	Length	Width	He	ight
Dimensions	. 5			
Standard open set dimensions mm	4340	1763	209	95

Note: Weights and dimensions represent a set with standard features. See outline drawing for weights of other configurations.





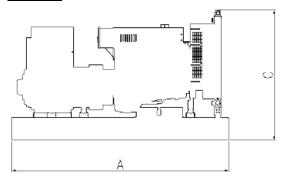


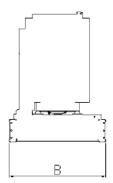




### **Genset outline**

#### 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	150/125	S/P	S6L1D-D4	380-440 V

## **Ratings definitions**

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

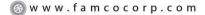
Single phase output

kW x 1000

Voltage x 1.73 x 0.8

Single phase output

Voltage



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