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**

Fuel consumption

	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	900 (720)				820 (656)			
pLoad	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 cylinder	
Aspiration	Turbocharged and after-cooled	
Gross engine power output, kWm	768	701
BMEP at set rated load, kPa	2675	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	
Governor type	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, ℃	70

Air	Standby rating	Prime rating
Combustion air, m^3/min	53.30	48.70
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m^3/min	147.8	135.6
Exhaust gas temperature, ℃	543	532
Maximum exhaust back pressure, kPa	10.2	

Standard set-mounted radiator cooling		
Ambient design, ℃ (open genset at 12.7mm H_2O)	40	
Fan load, kW_m	24.9	
Coolant capacity (with radiator), L	136.5	
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	8.2	
Total heat rejection, Btu/min	12636	12252
Maximum cooling air flow static restriction mm H_2O	25.4	25.4

Standard set-mounted radiator cooling when IBC is selected		
Ambient design, ℃	40	
Fan load, kW_m	14.3	
Coolant capacity (with radiator), L	109.5	
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	11.6	
Total heat rejection, Btu/min	12636	12252
Maximum cooling air flow static restriction mm H_2O	25.4	25.4

Optional set-mounted radiator cooling (All config)		
Ambient design, ℃ (open genset at 12.7mm H_2O)	50	
Fan load, kW_m	14.3	
Coolant capacity (with radiator), L	109.5	
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	11.6	
Total heat rejection, Btu/min	12636	12252
Maximum cooling air flow static restriction mm H_2O	25.4	25.4

Weights	Open	Enclosed
Unit dry weight kgs	6091	9868
Unit wet weight kgs	6289	9984

Dimensions	Length	Width	Height
Standard open set dimensions mm	4340	1763	2095
Enclosed set standard dimensions mm	5708	2108	2467

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

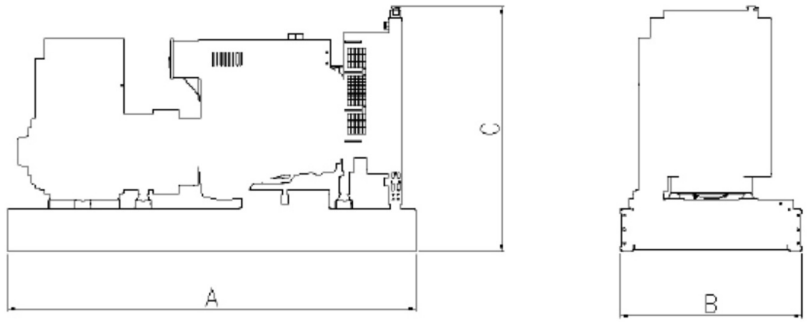
For more information contact your local Cummins distributor or visit power.cummins.com

Our energy working for you.™

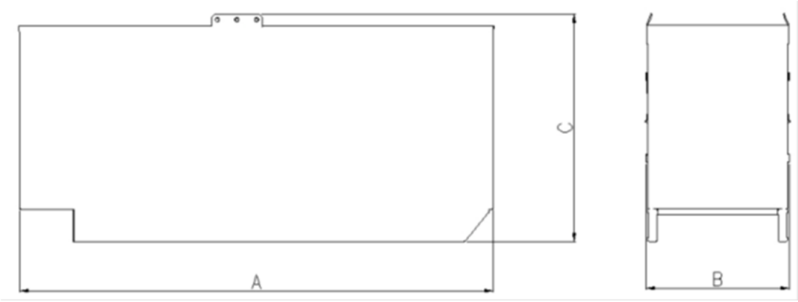
DS33-CPGK (01/23)

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 ºC	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

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

Single phase output

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

For more information contact your local Cummins distributor or visit power.cummins.com

Our energy working for you.™

DS33-CPGK (01/23)