Generator set data sheet

Model: C1100 D5
Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:	**SS14-CPGK**
Sound Data Sheet:	**MSP-4011**
Cooling System Data:	**MCP-2067**

Fuel consumption	**Standby**				**Prime**			
	kVA (kWe)				**kVA (kWe)**			
Ratings	1110 (888)				1000 (800)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
gph	15.2	29.7	44.2	59.2	14.2	26.4	39.8	53.2
L/hr	58	113	167	224	54	102	151	202

Engine	**Standby rating**	**Prime rating**
Engine manufacturer	Cummins	
Engine model	QST30-G4	
Configuration	Cast iron, 50º V12 cylinder	
Aspiration	Turbocharged and charge air cooled	
Gross engine power output, kWm	970	880
BMEP at set rated load, kPa	2544	2310
Bore, mm	140	
Stroke, mm	165	
Rated speed, rpm	1500	
Piston speed, m/s	8.3	
Compression ratio	14:1	
Lube oil capacity, L	135	
Overspeed limit, rpm	1725 ±50	
Regenerative power, kW	58	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow

Maximum fuel flow, L/hr	550
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	71

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Air	Standby rating	Prime rating
Combustion air, m^3/min	60.30	56.70
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load, m^3/min	179	165
Exhaust gas temperature, °C	575	565
Maximum exhaust back pressure, kPa	6.8	

Standard set-mounted radiator cooling

Ambient design, °C	40	
Fan load, kW_m	18	
Coolant capacity (with radiator), L	192	
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	14.2	
Total heat rejection, Btu/min	34910	32250
Maximum cooling air flow static restriction mm H_2O	12.7	

Optional set-mounted radiator cooling

Ambient design, °C	50	
Fan load, kW_m	18	
Coolant capacity (with radiator), L	192	
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	14.2	
Total heat rejection, Btu/min	34910	32250
Maximum cooling air flow static restriction mm H_2O	12.7	

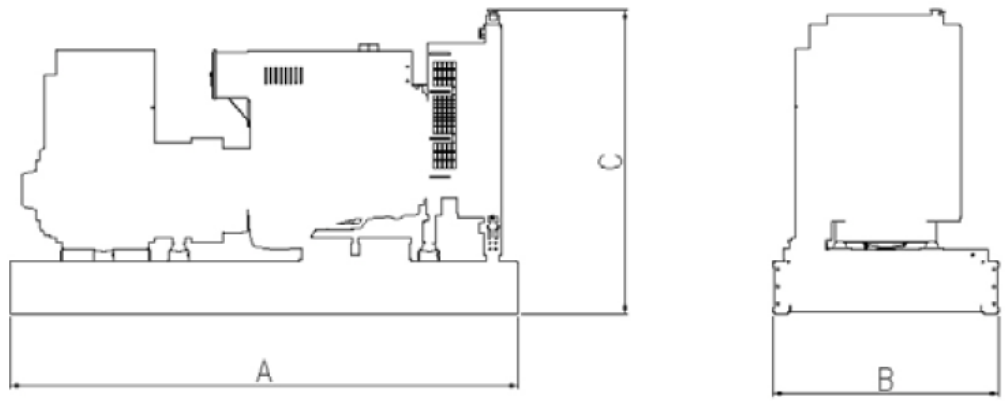
Weights*	Open	Enclosed
Unit dry weight kgs	6934	N/A
Unit wet weight kgs	7144	N/A

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

Dimensions	Length	Width	Height
Standard open set dimensions mm	4417	2000	2387
Enclosed set standard dimensions mm	N/A	N/A	N/A

Genset outline

Open set



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this

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Alternator data

Connection	Temp rise ºC	Duty	Alternator	Voltage
Wye, 3-phase	150/125 °C	S/P	S6F	380-440 V
Wye, 3-phase	105*	P	HCI6K	380-440 V

**Option available only through ETO (Engineering to Order)*

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

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