Generator set data sheet

Model: **C1100 D5B**
Frequency: **50 Hz**
Fuel type: **Diesel**

Spec sheet:	**SS15-CPGK**
Noise data sheet (open/enclosed):	**MSP-4116**
Airflow data sheet:	**MCP-2169**

Fuel consumption

	Standby				Prime			
	kVA (kW)				**kVA (kW)**			
Ratings	1132 (906)				1029 (823)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
US gph	25	33.5	44.6	59	17	30	43	55
L/hr	95	127	169	225	65	113	163	208

Engine

	Standby rating	**Prime rating**
Engine manufacturer	Cummins	
Engine model	KTA38-G14	
Configuration	Cast iron, 60º V12 cylinder	
Aspiration	Turbocharged and after-cooled	
Gross engine power output, kWm	970	880
BMEP at set rated load, kPa	2055	1868
Bore, mm	159	
Stroke, mm	159	
Rated speed, rpm	1500	
Piston speed, m/s	7.9	
Compression ratio	13.9:1	
Lube oil capacity, L	135	
Overspeed limit, rpm	1850 ±50	
Regenerative power, kW	86	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow

Maximum fuel flow, L/hr	428
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

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Air	Standby rating	Prime rating
Combustion air, m^3/min	72.80	68.40
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load, m^3/min	198.5	183.0
Exhaust gas temperature, °C	513	499
Maximum exhaust back pressure, kPa	10	

Standard set-mounted radiator cooling

Ambient design, °C	40	
Fan load, kWm	24	
Coolant capacity (with radiator), L	229	
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	13.42	
Total heat rejection, Btu/min	33800	30680
Maximum cooling air flow static restriction mm H_2O	25.4	

Optional set-mounted radiator cooling

Ambient design, °C (Open genset at 12.7mm H2O)	50	
Fan load, kWm	24	
Coolant capacity (with radiator), L	229	
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	13.42	
Total heat rejection, Btu/min	33800	30680
Maximum cooling air flow static restriction mm H_2O	25.4	

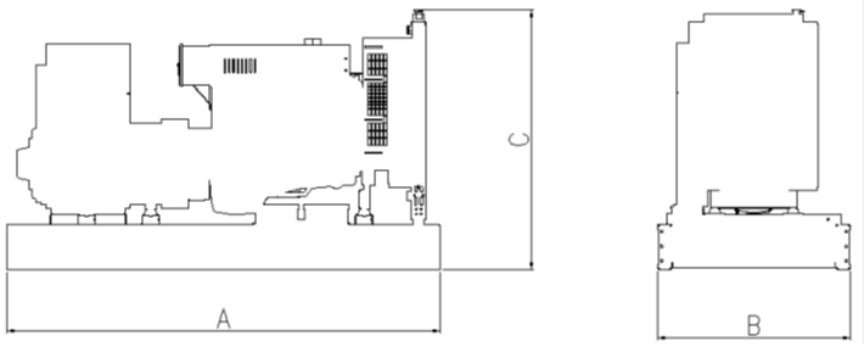
Weights*	Open	Enclosed
Unit dry weight kgs	8180	12267
Unit wet weight kgs	8416	12503

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

Dimensions	Length	Width	Height
Standard open set dimensions mm	4478	1682	2211
Enclosed set standard dimensions mm	7136.6	2174.6	2447

Genset outline

Open set



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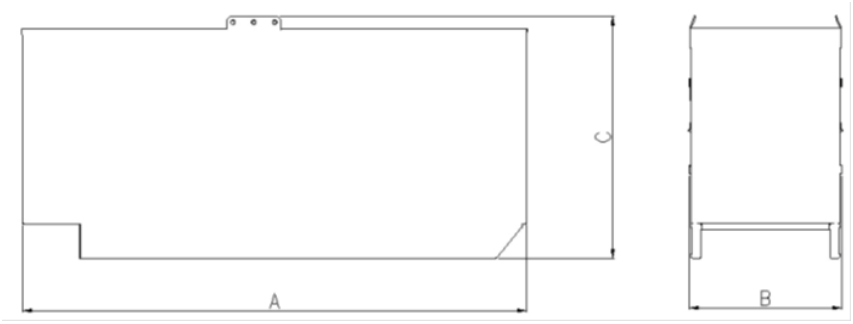
Enclosed set



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

See your distributor for more information.

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Alternator data

Connection	Temp Rise ºC	Duty	Alternator	Voltage
Wye, 3-phase	125	P	S6E	400-416V
Wye, 3-phase	150/125	S/P	S6F	220-440V

**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 continuously to varying electrical loads for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528 and ISO 3046-1, obtained and corrected in accordance with ISO 15550).	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 3046-1.	Applicable for supplying power continuously to a constant load up to the full output rating for unlimited hours. No sustained overload capability is available for this rating. Consult authorized distributor for rating. (Equivalent to Continuous Power in accordance with ISO 8528 and ISO 3046-1, obtained and corrected in accordance with ISO 15550). This rating is not applicable to all generator set models.

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

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

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