

Generator set data sheet



Model: C1250D5AB
Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:	SS15-CPGK
Noise data sheet (open/enclosed):	MSP-4117
Airflow data sheet:	MCP-2170

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	1250 (1000)				1125 (900)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	20.7	36.0	51.7	67.4	19.8	33.3	49.1	64.5
L/hr	79	137	196	256	75	126	186	244

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	KTA38-G9	
Configuration	Cast iron, 60° V12 cylinder	
Aspiration	Turbocharged and after-cooled	
Gross engine power output, kWm	1089	N/A
BMEP at set rated load, kPa	2296	N/A
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

Air	Standby rating	Prime rating
Combustion air, m ³ /min	78.57	N/A
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m ³ /min	212.37	N/A
Exhaust gas temperature, °C	529	N/A
Maximum exhaust back pressure, kPa	10	

Standard set-mounted radiator cooling		
Ambient design, °C	45	
Fan load, kWm	23.7	
Coolant capacity (with radiator), L	229	
Cooling system air flow, m ³ /sec @ 12.7 mm H ₂ O	14.30	
Total heat rejection, Btu/min	38243	N/A
Maximum cooling air flow static restriction mm H ₂ O	25.4	

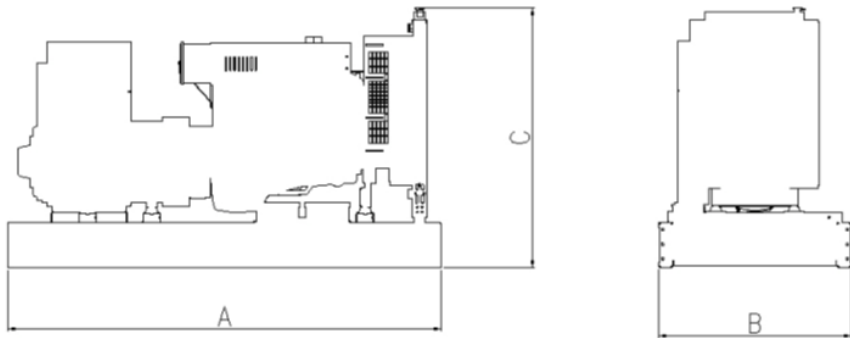
Weights*	Open	Enclosed
Unit dry weight kgs	8586	12673
Unit wet weight kgs	8822	12909

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

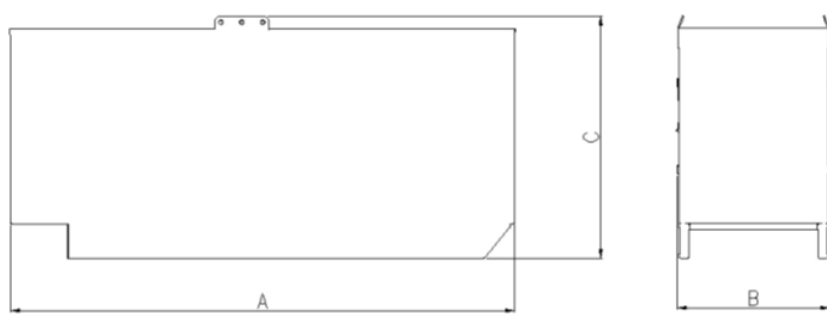
Dimensions	Length	Width	Height
Standard open set dimensions mm	4478	1682	2211
Enclosed set standard dimensions mm	7136.6	2174.6	2447

Genset outline

Open set



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	S	S6G	380-440V

*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

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

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

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