

Model: C1250 D5A
Frequency: 50
FuelType: Diesel

»Generator set data sheet

1250kVA Standby



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Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	1000(1250)				900(1125)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
USgph	20.9	36.2	51.8	67.6	N.A.	N.A.	N.A.	N.A.
L/hr	79	137	196	256	N.A.	N.A.	N.A.	N.A.

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	KTA38G9	
Configuration	4-Cycle; 60° Vee; 12-Cylinder Diesel	
Aspiration	Turbocharged and Aftercooled	
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	114	
Over speed limit, rpm	1800±50	
Regenerative power, kWm	86	
Governor type	Electronic	
Starting voltage	24VoltsDC	

Fuel flow	
Maximum fuel flow, L/hr	428
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature(°C)	60

Air	
Combustion air, m ³ /min	78.5
Maximum air cleaner restriction, mm H ₂ O	635

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /min	212.4	N.A.
Exhaust gas temperature, °C	529	N.A.
Maximum exhaust back pressure, mm Hg	76	

Standard set-mounted radiator cooling		
Ambient design, °C	40	
Fan load, KW _m	24	
Coolant capacity (with radiator), L	336	
Cooling system air flow, m ³ /min@12.7 mmH ₂ O	1128	
Total heat rejection, BTU/min	37960	N.A.
Maximum cooling air flow static restriction mmH ₂ O	12.7	

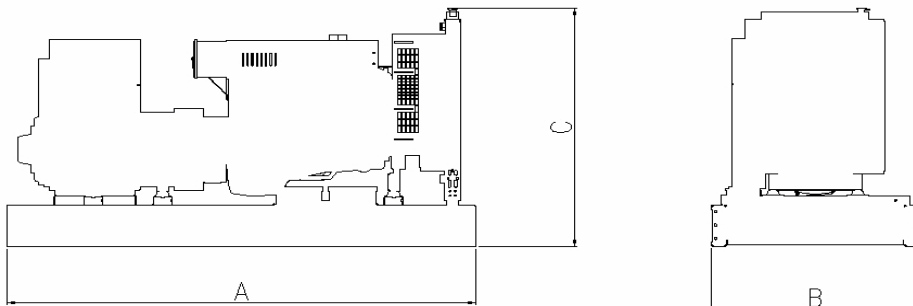
Weights*	Open	Enclosed
Unit dry weight kgs	8179	N.A.
Unit wet weight kgs	8569	N.A.

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

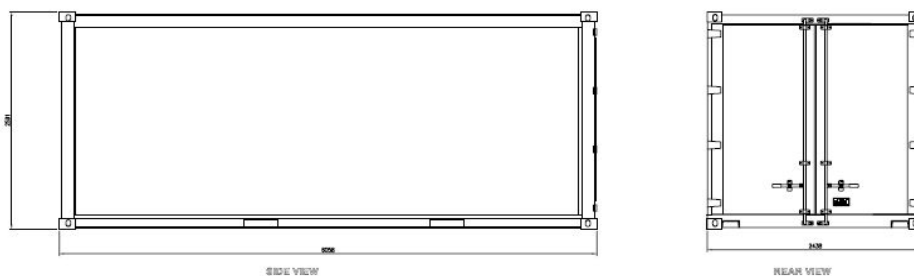
Dimensions	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	4722	1785	2241
Enclosed set standard dimensions, mm	20'container	-	-

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.

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Alternator data

Feature code	Connection ¹	Temp rise	Duty ²	Alternator	Voltage
-	Wye, 3 Phase	125/105	S/P	P7A	380-415V

Ratings definitions

Standby:	Limited Time Running:	Prime (unlimited running time):	Base Load (Continuous):
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 is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power 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 in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Notes:

- Limited single phase capability is available from some three phases rated configurations. To obtain single phase rating, multiply the three phase kW rating by the single phase factor. All single phase ratings are at unity power factor.
- Standby (S) and Prime (P) ratings.

Formulas for calculating full load currents:

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.732 \times 0.8}$$

Single phase output

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

See your distributor for more information.

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