Model: **C1250 D5A**
Frequency: **50**
FuelType: **Diesel**

»Generator set data sheet

1250kVA Standby

Our energy working for you.™

Fuel consumption

Ratings	Standby kW (kVA)				Prime kW (kVA)			
	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	N.A.
Maximum air cleaner restriction, mm H$_2$O	635	

Exhaust

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

| 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_2O	1128	
Total heat rejection, BTU/min	37960	N.A.
Maximum cooling air flow static restriction mmH_2O	12.7	

Weights*

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

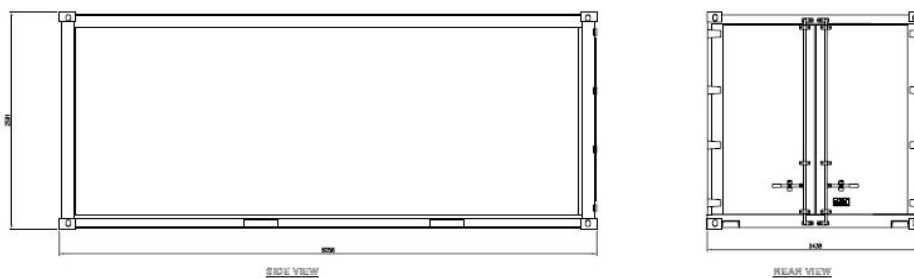* Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions

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

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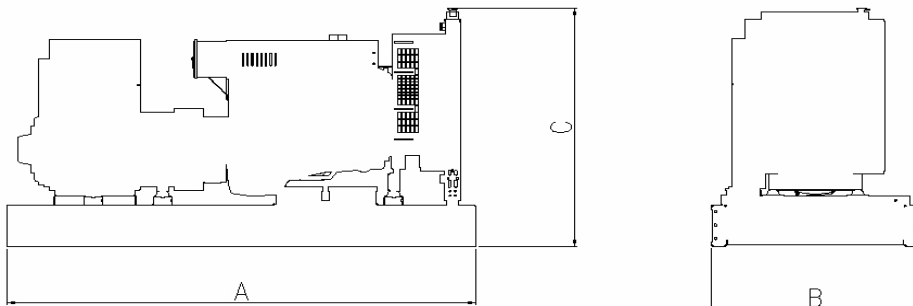
Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

Power Generation

Alternatordata

Feature code	Connection₁	Temp rise	Duty²	Alternator	Voltage
-	Wye, 3 Phase	125/105	S/P	P7A	380-415V

Ratingsdefinitions

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:

1. 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.
2. Standby (S) and Prime (P) ratings.

Formulas for calculating full load currents:

Three phase output

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

Single phase output

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

See your distributor for more information.

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