Model: C1100 D5B
Frequency: 50
Fuel Type: Diesel

» Generator set data sheet

1133 kVA Standby

Our energy working for you.™

Power Generation

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	906 (1133)				823 (1029)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	16.1	28.9	44.1	60.2	17.2	29.9	42.5	55.2
L/hr	61	109	167	228	65	113	161	209

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	KTA38G5	
Configuration	4-Cycle; 60° Vee; 12-Cylinder Diesel	
Aspiration	Turbocharged and Aftercooled	
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	114	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kWm	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)	60

Air		
Combustion air, m^3/min	72.8	68.4
Maximum air cleaner restriction, mm H_2O	635	

APSB-1154-07 (9/07)

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m^3/min	198.4	183.1
Exhaust gas temperature, °C	513	499
Maximum exhaust back pressure, mmHg	76	

Standard set-mounted radiator		
Ambient design, °C	40	
Fan load, KW_m	20	
Coolant capacity (with radiator), L	290	
Cooling system air flow, m^3/min @ 12.7mmH_2O	1080	
Total heat rejection, BTU/min	33800	30680
Maximum cooling air flow static restriction mmH_2O	12.7	

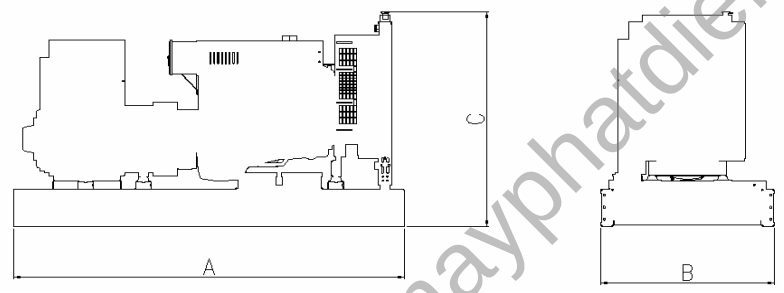
Weights*	Open	Enclosed
Unit dry weight kgs	8466	N.A.
Unit wet weight kgs	9017	N.A.

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

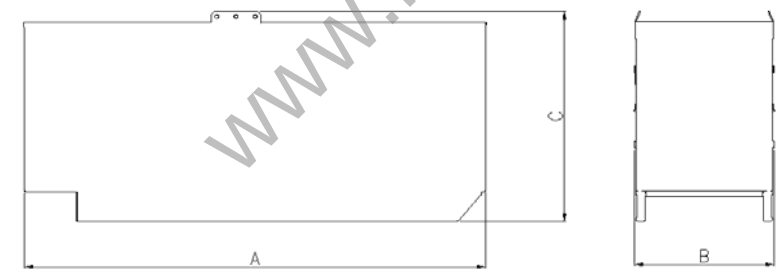
Dimensions	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	4479	1854	2194
Enclosed set standard dimensions, mm	N.A.	N.A.	N.A.

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.

Our energy working for you.™

APSB-1154-07 (9/07)

Power Generation

Alternator data

Feature code	Connection[1]	Temp rise degrees C	Duty[2]	Alternator	Voltage
-	Wye, 3 Phase	125/105	S/P	HC6K	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:

1. Limited single phase capability is available from some three phase 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

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

Single phase output

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

See your distributor for more information.

Nguyen Gia Equipment & Technology Co., Ltd
No 2 Nguyen Van Huyen,
Cau Giay District,
Hanoi City, Vietnam
Telephone: +84 (0) 24 6682 7066
Fax +84 (0) 24 3212 3880
E-mail: sales.vinpower@gmail.com
Web: http://mayphatdiendiesel.vn

Our energy working for you.™

APSB-1154-07 (9/07)