Model: C15 D5
Frequency: 50
Fuel Type: Diesel

» Generator set data sheet

15 kVA Standby

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Power Generation

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	12 (15)				10.4 (13)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	0.2	0.4	0.6	0.9	0.2	0.4	0.6	0.7
L/hr	1	2	2	3	1	1	2	3

Engine	Standby rating	Prime rating
Engine manufacturer	Kubota	
Engine model	D1703 - BG	
Configuration	4 Cycle; In-line; 3 Cylinder Diesel	
Aspiration	Natural Aspiration	
Gross engine power output, kWm	15	13.6
BMEP at set rated load, kPa	728	660
Bore, mm	87	
Stroke, mm	92.4	
Rated speed, rpm	1500	
Piston speed, m/s	4.62	
Compression ratio	23:1	
Lube oil capacity, L	7	
Overspeed limit, rpm	3000 ±50	
Regenerative power, kWm	TBA	
Governor type	Mechanical	
Starting voltage	12 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	5
Maximum fuel inlet restriction, mm Hg	6.8
Maximum fuel inlet temperature (°C)	70

Air		
Combustion air, m^3/min	1.07	1.07
Maximum air cleaner restriction, mm H_2O	510	

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Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m^3/min	3.54	3.54
Exhaust gas temperature, °C	539	525
Maximum exhaust back pressure, mmHg	75	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, KW_m	0	
Coolant capacity (with radiator), L	4.75	
Cooling system air flow, m^3/min @ 12.7mmH_2O	18.6	
Total heat rejection, BTU/min	TBA	TBA
Maximum cooling air flow static restriction mmH_2O	12.7	

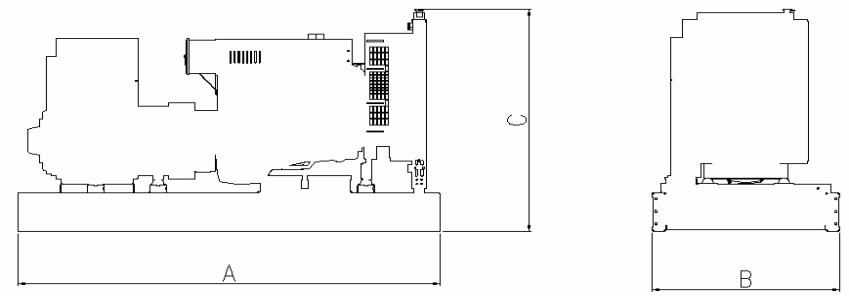
Weights*	Open	Enclosed
Unit dry weight kgs	370	632
Unit wet weight kgs	385	647

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

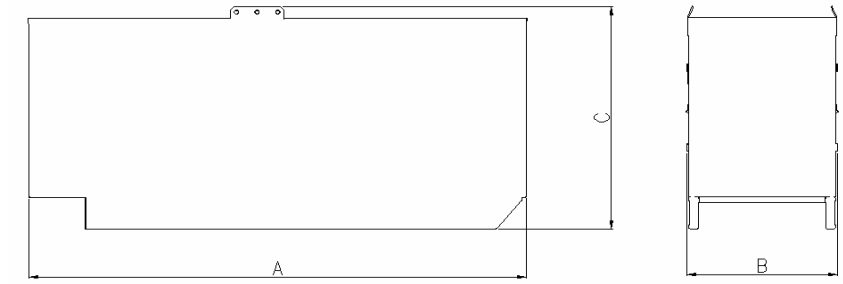
Dimensions	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	1300	730	1130
Enclosed set standard dimensions, mm	1454	769	1417

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 degrees C	Duty[2]	Alternator	Voltage
-	Wye, 3 Phase	125/105	S/P	BC164D	400/230V

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.

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