

Model: C38 D5  
 Frequency: 50  
 Fuel Type: Diesel

» Generator set data sheet

38 kVA Standby



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Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	30.4 (38)				28 (35)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	0.7	1.2	1.8	2.5	0.7	1.2	1.6	2.2
L/hr	3	5	7	9	3	5	6	8

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	4B3.3G1	
Configuration	4 Cycle; In-line; 4 Cylinder Diesel	
Aspiration	Naturally Aspirated	
Gross engine power output, kWm	36	32
BMEP at set rated load, kPa	876	787
Bore, mm	95	
Stroke, mm	115	
Rated speed, rpm	1500	
Piston speed, m/s	5.8	
Compression ratio	18.2:1	
Lube oil capacity, L	7	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kWm	3	
Governor type	Mechanical	
Starting voltage	12 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	12.5
Maximum fuel inlet restriction, mm Hg	73
Maximum fuel inlet temperature (°C)	60

Air	
Combustion air, m <sup>3</sup> /min	2.1
Maximum air cleaner restriction, mm H <sub>2</sub> O	762

<b>Exhaust</b>	Standby rating	Prime rating
Exhaust gas flow at set rated load, m <sup>3</sup> /min	5.7	5.4
Exhaust gas temperature, °C	498	448
Maximum exhaust back pressure, mmHg	75	

<b>Standard set-mounted radiator cooling</b>		
Ambient design, °C	50	
Fan load, KW <sub>m</sub>	0.7	
Coolant capacity (with radiator), L	9.1	
Cooling system air flow, m <sup>3</sup> /min @ 12.7mmH <sub>2</sub> O	55.2	
Total heat rejection, BTU/min	1230	1180
Maximum cooling air flow static restriction mmH <sub>2</sub> O	12.7	

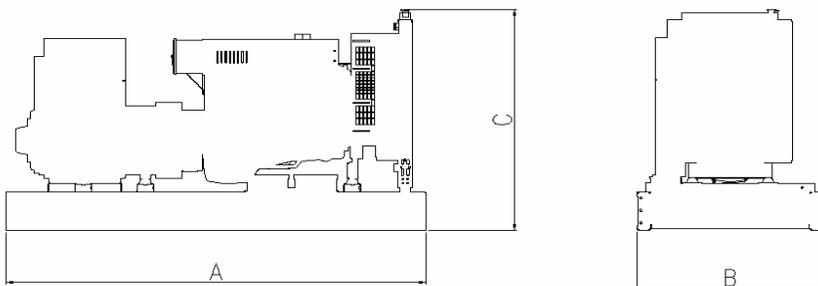
<b>Weights*</b>	Open	Enclosed
Unit dry weight kgs	640	964
Unit wet weight kgs	705	983

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

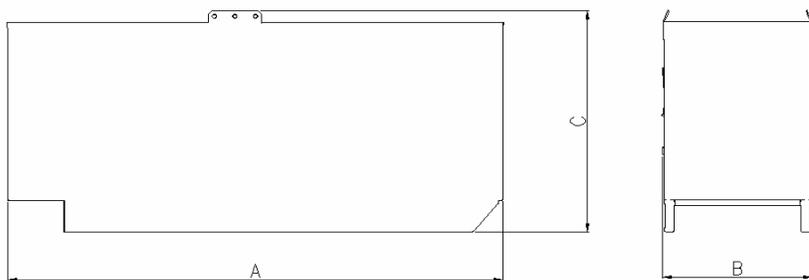
<b>Dimensions</b>	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	1753	930	1256
Enclosed set standard dimensions, mm	2244	990	1575

## 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 <sup>1</sup>	Temp rise degrees C	Duty <sup>2</sup>	Alternator	Voltage
-	Wye, 3 Phase	150/125C	S/P	BC184H	380-440V

## 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 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.
- 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.

Cummins Power Generation

Asia Pacific

10 Toh Guan Road #07-01

TT International Tradepark

Tel: (65) 6417 2388

Fax: (65) 6417 2399

E-Mail: [cpg.apmktg@cummins.com](mailto:cpg.apmktg@cummins.com)

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