

Model: C1000 D5  
 Frequency: 50  
 Fuel Type: Diesel

» Generator set data sheet

1041 kVA Standby



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Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	833 (1041)				751 (939)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	14.4	25.8	39.5	53.9	13.5	24.8	36.7	48.6
L/hr	54	98	150	204	51	94	139	184

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	QST30G3	
Configuration	4-Cycle; 50° Vee; 12-Cylinder Diesel	
Aspiration	Turbocharged and Aftercooled	
Gross engine power output, kWm	895	806
BMEP at set rated load, kPa	2358	2117
Bore, mm	140	
Stroke, mm	165	
Rated speed, rpm	1500	
Piston speed, m/s	8.3	
Compression ratio	14:1	
Lube oil capacity, L	133	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kWm	58	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	550
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	60

Air	
Combustion air, m <sup>3</sup> /min	56.2
Maximum air cleaner restriction, mm H <sub>2</sub> O	635

<b>Exhaust</b>	Standby rating	Prime rating
Exhaust gas flow at set rated load, m <sup>3</sup> /min	163	146
Exhaust gas temperature, °C	563	541
Maximum exhaust back pressure, mmHg	76	

<b>Standard set-mounted radiator cooling</b>		
Ambient design, °C	40	
Fan load, KW <sub>m</sub>	18	
Coolant capacity (with radiator), L	169	
Cooling system air flow, m <sup>3</sup> /min @ 12.7mmH <sub>2</sub> O	930	
Total heat rejection, BTU/min	22970	21200
Maximum cooling air flow static restriction mmH <sub>2</sub> O	12.7	

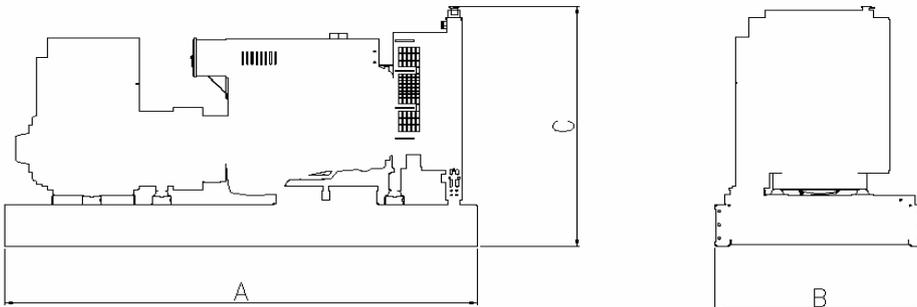
<b>Weights*</b>	Open	Enclosed
Unit dry weight kgs	6890	N.A.
Unit wet weight kgs	7295	N.A.

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

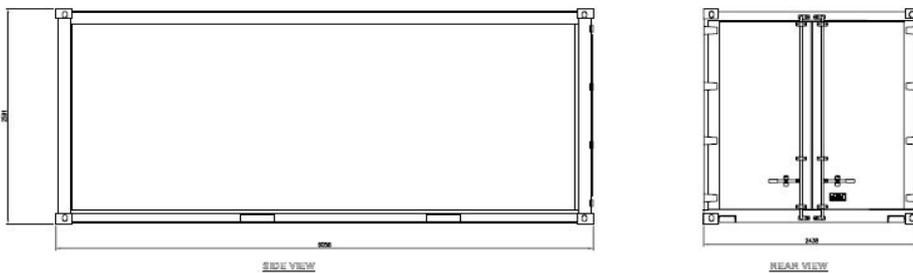
<b>Dimensions</b>	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	4230	1756	2248
Enclosed set standard dimensions, mm	20' container	-	-

## 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 <sup>1</sup>	Temp rise	Duty <sup>2</sup>	Alternator	Voltage
-	Wye, 3 Phase	125/105	S/P	HC6J	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 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.

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