Model: C500 D5e

Frequency: 50
Fuel Type: Diesel

# » Generator set data sheet 500 kVA Standby



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	Stand				Prime	Prime kVA (kW)		
Fuel consumption	kVA (k				kVA (k			
Ratings	499.6 (400)		449.6	449.6 (360)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	7.8	14.1	21.5	29.3	7.3	13.1	18.9	24.7
L/hr	30	53	81	111	28	50	72	94
Engine			Standl	by rating		Prime	rating	
Engine manufacturer			Cummins					

2	100 101 111	120	100	172 104		
Engine	Standby rat	Standby rating		Prime rating		
Engine manufacturer	Cummins		•			
Engine model	QSX15G8					
Configuration	4 Cycle; In-L	ne; 6 Cylinde	er Diesel			
Aspiration	Turbo Chargo	ed and Char	ge Air Cooled			
Gross engine power output, kWm	500		444			
BMEP at set rated load, kPa	2675		2371			
Bore, mm	137					
Stroke, mm	169	169				
Rated speed, rpm	1500					
Piston speed, m/s	8.4					
Compression ratio	17:1	17:1				
Lube oil capacity, L	83					
Overspeed limit, rpm	1800 ±50					
Regenerative power, kWm	37					
Governor type	Electronic					
Starting voltage	24 Volts DC					
Fuel flow	1					
Maximum fuel flow, L/hr	424	424				
Maximum fuel inlet restriction, mm Hg	127	127				
Maximum fuel inlet temperature (°C)	71	71				
Air	1					
Combustion air, m <sup>3</sup> /min	36.3		32.5			
Maximum air cleaner restriction, mm H <sub>2</sub> O	635	635				

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/min	82.2	75.4
Exhaust gas temperature, °C	515	488
Maximum exhaust back pressure, mmHg	76	

## Standard set-mounted radiator cooling

Ambient design, °C	50	50		
Fan load, KW <sub>m</sub>	16	16		
Coolant capacity (with radiator), L	42			
Cooling system air flow, m <sup>3</sup> /min @ 12.7mmH <sub>2</sub> O	678			
Total heat rejection, BTU/min	16700	13700		
Maximum cooling air flow static restriction mmH <sub>2</sub> O	12.7	12.7		

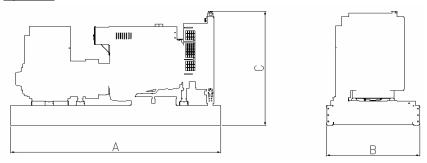
Weights*	Open	Enclosed
Unit dry weight kgs	4072	5092
Unit wet weight kgs	4824	5844

<sup>\*</sup> 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	3403	1500	2059
Enclosed set standard dimensions, mm	5084	1500	2370

## **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		Temp rise degrees C	Duty <sup>2</sup>	Alternator	Voltage
-	Wye, 3 Phase	163/125C	S/P	HC5C	380-415V

## **Ratings definitions**

Standby:	Limited Time Running:	Prime (unlimited running time):	Base Load (Continuous):
reliable utility source. Emergency Standby Power (ESP) is in	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power is in accordance with ISO 8528.	unlimited hours. Prime Power is in accordance with ISO 8528. Ten percent overload capability is available in accordance with	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 Single phase output

 kW x 1000
 kW x 1000

 Voltage x 1.732 x 0.8
 Voltage

See your distributor for more information.

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