## **Generator set data sheet**



Model: C175 D5e

Frequency: 50 Hz
Fuel type: Diesel

	Standby			Prime				
Fuel consumption	kVA (kV	Ve)			kVA (k\	Ve)		
Ratings	175 (14	175 (140)		160 (128)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	3.0	5.4	7.3	9.1	2.7	5.0	6.8	8.4
L/hr	13.6	24.5	33.3	41.3	12.3	22.7	31.1	38.4

Engine	Standby rating	Prime rating		
Engine manufacturer	Tata Cummins Limited (JV)			
Engine model	QSB7-G5	QSB7-G5		
Configuration	4 cycle; in-line; 6 cylind	4 cycle; in-line; 6 cylinder diesel		
Aspiration	Turbocharged and cha	nge air-cooled		
Gross engine power output, kWm	213	36		
BMEP at set rated load, kPa	2537	719.9		
Bore, mm	107	107		
Stroke, mm	124	124		
Rated speed, rpm	1500	1500		
Piston speed, m/s	6.2	6.2		
Compression ratio	17.2:1			
Lube oil capacity, L	19			
Overspeed limit, rpm	1800 ± 50			
Regenerative power, kW	14			
Governor type	Electronic			
Starting voltage	12 Volts DC			

# **Fuel flow**

Maximum fuel flow, L/hr	106
Maximum fuel inlet restriction, mm Hg	254
Maximum fuel inlet temperature, °C	71

Air	Standby rating	Prime rating
Combustion air, m <sup>3</sup> /min	12.72	12.30
Maximum air cleaner restriction, kPa	6.2	

### **Exhaust**

Exhaust gas flow at set rated load, m³/min	35.8	34.1
Exhaust gas temperature, °C	561	544
Maximum exhaust back pressure, kPa	10.2	

## Standard set-mounted radiator cooling

Ambient design, °C – Open Genset @ 12.7 mm H2O	55		
Fan load, kW <sub>m</sub>	6.8		
Coolant capacity (with radiator), L	30.2		
Cooling system air flow, m³/sec @ 12.7 mm H <sub>2</sub> O	5.91		
Total heat rejection, Btu/min	6516	5825	
Maximum cooling air flow static restriction, mm H <sub>2</sub> O	8.12		

Weights*	Open	Enclosed
Unit dry weight, kgs	1928	2842 / 2592**
Unit wet weight, kgs	1976	2890 / 2640**

<sup>\*</sup> Note: Weights represent a set with standard features. See outline drawing for weights of other configurations.

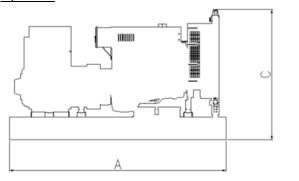
<sup>\*\*</sup>Note: Weights are for Chassis lifting arrangement option

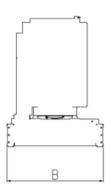
Dimensions	Length	Width	Height
Standard open set dimensions, mm	2656	1130	1822
Enclosed set standard dimensions, mm	4209 / 3690**	1130 / 1130**	2227 / 2100**

<sup>\*\*</sup>Note: Dimensions are for Chassis lifting arrangement option

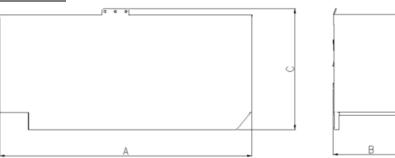
### **Genset outline**

#### Open set





### **Enclosed set**



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

### **Alternator data**

Connection	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	163/125	S/P	UCI274F	380-415 V
Wye, 3-phase	125/105	S/P	UCI274G	380-440 V

## **Ratings definitions**

Emergency Standby Power (ESP):	Limited-Time running Power (LTP):	Prime Power (PRP):	Base load (Continuous) Power (COP):
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 and DIN 6271.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789 and DIN 6271.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789 and DIN 6271.

## Formulas for calculating full load currents:

Three phase output Single phase output

kW x 1000 kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8

Voltage

For more information contact your local Cummins distributor or visit power.cummins.com

