

## Generator set data sheet



**Model:** C66D5R (B3.3 Rental Product)  
**Frequency:** 50 Hz  
**Fuel type:** Diesel

<b>Spec sheet:</b>	S-6569
<b>Noise data sheet (open):</b>	MSP-XXXX
<b>Airflow data sheet:</b>	MCP-XXXX

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	66 (53)				60 (48)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	1.3	2.1	3.2	4.3	1.2	1.9	2.8	3.7
L/hr	4.8	7.8	12	16.2	4.5	7.3	10.6	14

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	4BTAA3.3-G14	
Configuration	In-line; 4 cylinder diesel	
Aspiration	Turbocharged and after-cooled	
Gross engine power output, kWm	62.6	58
BMEP at set rated load, kPa	1538	1428
Bore, mm	95	
Stroke, mm	115	
Rated speed, rpm	1500	
Piston speed, m/s	5.75	
Compression ratio	19:1	
Lube oil capacity, L	8	
Overspeed limit, rpm	1650	
Regenerative power, kW	N/A	
Governor type	Mechanical as standard	
Starting voltage	12 V DC	

Fuel flow	
Maximum fuel flow, L/hr	45
Maximum fuel inlet restriction, mm Hg (clean filter)	101.6
Maximum fuel inlet temperature, °C	70

<b>Air</b>	<b>Standby rating</b>	<b>Prime rating</b>
Combustion air, m <sup>3</sup> /min	4.92	4.47
Maximum air cleaner restriction, kPa	2.5	

### Exhaust

Exhaust gas flow at set rated load, m <sup>3</sup> /min	13.02	11.63
Exhaust gas temperature, °C	497	492
Maximum exhaust back pressure, kPa	10	

### Standard set-mounted radiator cooling

Ambient design, °C @ 12.7mm H <sub>2</sub> O	55	
Fan load, kW <sub>m</sub>	2 +/- 1	
Coolant capacity (with radiator), L	10.7	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	1.611	
Total heat rejection, Btu/min	1877	1734
Maximum cooling air flow static restriction, mm H <sub>2</sub> O	25.4	

### Weights

	<b>Enclosed</b>
Unit dry weight, kg (standard skid)	1490
Unit wet weight, kg (standard skid)	2000

\*\*Note: Weights and dimensions are for Chassis lifting arrangement option.

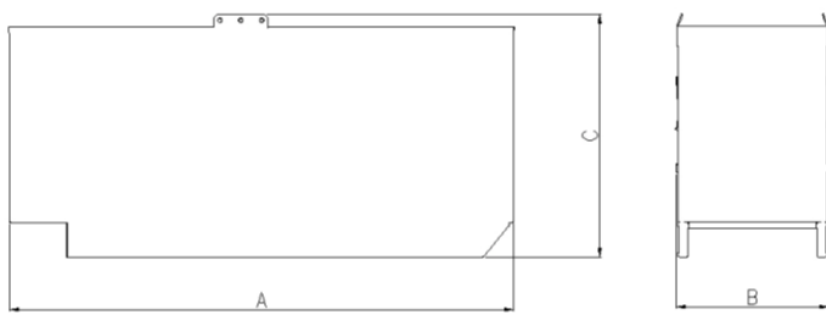
### Dimensions

	<b>Length</b>	<b>Width</b>	<b>Height</b>
Enclosed set dimensions (standard skid)	2277	1038	1937

\*\*Note: Weights and dimensions are for Chassis lifting arrangement option.

### Genset outline

#### Enclosed set



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

### Alternator data

<b>Connection<sup>1</sup></b>	<b>Temp rise °C</b>	<b>Duty<sup>2</sup></b>	<b>Alternator</b>	<b>Voltage</b>
Wye, 3-phase	163/125	S/P	UCI22 4F/UC224E	380-415
Wye, 3-phase	150/105	S/P	UCI22 4G/UC224F	380-415

## Ratings definitions

Emergency Standby Power (ESP):	Prime Power (PRP):
<p>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.</p>	<p>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.</p>

## Formulas for calculating full load currents:

### Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

### Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

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