

Generator set data sheet



Model: C40D6R (B3.3 Rental Product)
Frequency: 60 Hz
Fuel type: Diesel

Spec sheet:	S-6569
Noise data sheet (open):	MSP-XXXX
Airflow data sheet:	MCP-XXXX

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	40 (50)				36 (45)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	1.1	1.9	2.4	3.4	1.0	1.7	2.2	3.0
L/hr	4.2	7.2	9	12.9	3.9	6.6	8.4	11.4

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	4BTAA3.3-G12	
Configuration	In-line; 4-cylinder diesel	
Aspiration	Turbocharged and charge after-cooled	
Gross engine power output, kWm	74	67
BMEP at set rated load, kPa	1511	1337
Bore, mm	95	
Stroke, mm	115	
Rated speed, rpm	1800	
Piston speed, m/s	6.9	
Compression ratio	17.3:1	
Lube oil capacity, L	7.9	
Overspeed limit, rpm	1980	
Regenerative power, kW	N/A	
Governor type	Electronic as standard	
Starting voltage	24 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

Air	Standby rating	Prime rating
Combustion air, m ³ /min	5.94	5.94
Maximum air cleaner restriction, kPa	3	

Exhaust

Exhaust gas flow at set rated load, m ³ /min	14.49	13.81
Exhaust gas temperature, °C	529	505
Maximum exhaust back pressure, kPa	102	

Standard set-mounted radiator cooling

Ambient design, °C (open genset at 12.7mm H ₂ O restriction)	55	
Fan load, kW _m	3.46 +/- 1	
Coolant capacity (with radiator), L	10.3	
Cooling system air flow, m ³ /sec @ 12.7 mm H ₂ O	1.87	
Total heat rejection, Btu/min	2648	2121
Maximum cooling air flow static restriction, mm H ₂ O	25.4	

Weights

	Enclosed
Unit dry weight, kg (standard skid)	1490
Unit wet weight, kg (standard skid)	1800

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

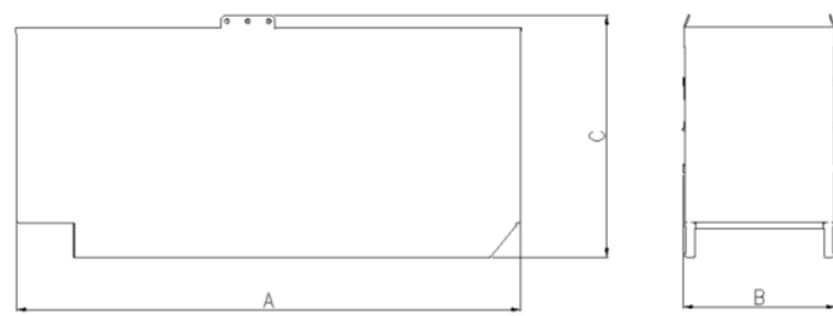
Dimensions

	Length	Width	Height
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

Connection¹	Temp rise °C	Duty²	Alternator	Voltage
Wye, 3-phase	163/125	S/P	UCI22 4C	380-415
Wye, 3-phase	150/105	S/P	UCI22 4D	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

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

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

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