

Generator set data sheet



Model: C40 D6e (B3.3)
Frequency: 60 Hz
Fuel type: Diesel

Spec sheet:	S-6282-EN
Noise data sheet (open):	MSP-3028
Airflow data sheet:	MCP-2024
Derate data sheet (open):	EDS-2024

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	

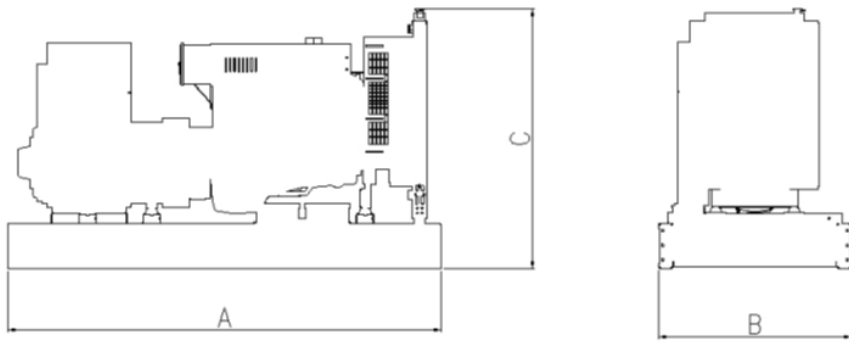
Standard set-mounted radiator cooling		
Ambient design, °C (open genset at 12.7mm H ₂ O restriction)	55	
Fan load, kW _m	3.46 +/- 1	
Coolant capacity (with radiator), L	10.3	
Cooling system air flow, m ³ /sec @ 12.7 mm H ₂ O	1.87	
Total heat rejection, Btu/min	2648	2121
Maximum cooling air flow static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

Weights	Open	Enclosed
Unit dry weight, kg (standard skid)	922	1326
Unit wet weight, kg (standard skid)	1010	1414
Unit dry weight, kg (optional skid)	1140	1543
Unit wet weight, kg (optional skid)	1228	1631

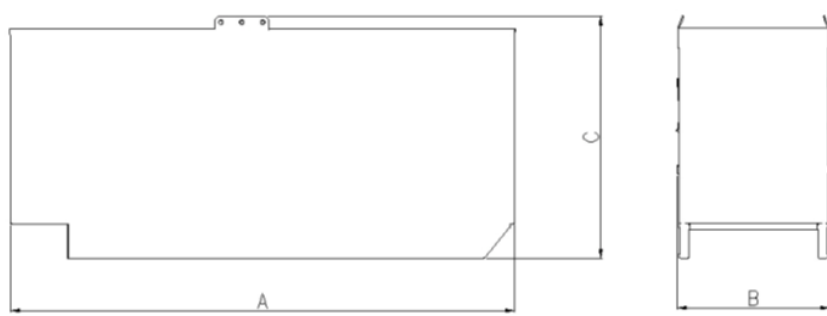
Dimensions	Length	Width	Height
Open set dimensions (standard skid)	2050	967	1510
Enclosed set dimensions (standard skid)	2270	975	1920
Open set dimensions (optional skid)	2270	967	1720
Enclosed set dimensions (optional skid)	2270	975	2115

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 ¹	Temp rise °C	Duty ²	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):	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

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

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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