Generator set data sheet

Model: C2000D5B
Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:	**S-6722**
Sound data sheet:	**MSP-4171**
Airflow data sheet:	**MCP-2250**

Fuel consumption

	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	1600 (2000)				1440 (1800)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
US gph	30.1	54.9	81.4	108.6	31.4	54.2	74.2	102
L/hr	114	208	308	411	119	205	281	386

Engine

	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	KTA50-G23	
Configuration	Cast iron, 60º V16 cylinder	
Aspiration	Turbocharged and low temperature after-cooled	
Gross engine power output, kWm	1740	1567
BMEP at set rated load, kPa	2770	2493
Bore, mm	159	
Stroke, mm	159	
Rated speed, rpm	1500	
Piston speed, m/s	7.95	
Compression ratio	14.7:1	
Lube oil capacity, L	178	
Overspeed limit, rpm	1725	
Regenerative power, kW	116	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow

Maximum fuel flow, L/hr	723
Maximum fuel inlet restriction, mm Hg	101.6
Maximum fuel inlet temperature, °C	42

Air	Standby rating	Prime rating
Combustion air, m^3/min	135	130
Maximum air cleaner restriction, kPa	3.73	

Exhaust		
Exhaust gas flow at set rated load, m^3/min	331	306
Exhaust gas temperature, °C	508	477
Maximum exhaust back pressure, kPa	6.77	

Standard set-mounted radiator cooling		
Ambient design, °C	40	
Fan load, kWm	55	
Coolant capacity (with radiator), L	516	
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	36.14	
Total heat rejection, Btu/min	55847	50296
Maximum cooling air flow static restriction mm H_2O	25.4	

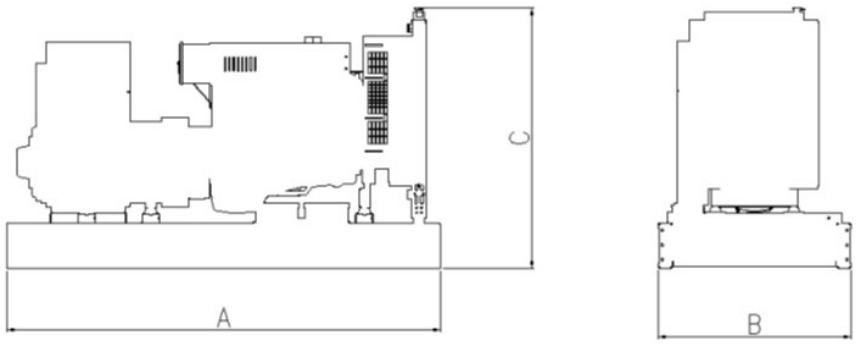
Weights*	Open
Unit dry weight kgs	12979
Unit wet weight kgs	13683

* Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions	Length	Width	Height
Standard open set dimensions mm	6017	2590	3330

Genset outline

Open set



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

Connection	Temp rise ºC	Duty	Alternator (40 Deg Ambient)	Voltage
Wye, 3-phase	150	S	S7L1D-G4	380, 400, 415 & 440
Wye, 3-phase	125	P	S7L1D-F4	380-440
Wye, 3-phase	105	P	S7L1D-G4	380, 400, 415 & 440

Ratings definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
Applicable for supplying power continuously to varying electrical loads for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528 and ISO 3046-1, obtained and corrected in accordance with ISO 15550).	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 3046-1.	Applicable for supplying power continuously to a constant load up to the full output rating for unlimited hours. No sustained overload capability is available for this rating. Consult authorized distributor for rating. (Equivalent to Continuous Power in accordance with ISO 8528 and ISO 3046-1, obtained and corrected in accordance with ISO 15550). This rating is not applicable to all generator set models.

Formulas for calculating full load currents:

Three phase output

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

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

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