Generator set data sheet

Power Generation

Model: C2000 D5
Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:	**SS17-CPGK**
Noise data sheet:	**ND50-OSHHP**
Airflow data sheet:	**AF50-HHP**
Derate data sheet:	**DD50-OSHHP**
Transient data sheet:	**RTF**

Fuel consumption

	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	2063 (1650)				1875 (1500)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	32.3	54.9	79.2	107.1	29.5	50.2	71.3	95.7
L/hr	122	208	300	406	112	190	270	363

Engine

	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	QSK60-G3	
Configuration	Cast iron, 60 º V16 cylinder	
Aspiration	Turbocharged and low temperature aftercooled	
Gross engine power output, kWm	1790	1615
BMEP at set rated load, kPa	2379	2144
Bore, mm	159	
Stroke, mm	190	
Rated speed, rpm	1500	
Piston speed, m/s	9.5	
Compression ratio	14.5:1	
Lube oil capacity, L	378	
Overspeed limit, rpm	1725 ±50	
Regenerative power, kW	146	
Governor type	Electronic	
Starting voltage	24V Volts DC	

Fuel flow

Maximum fuel flow, L/hr	1515
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

Air

	Standby rating	Prime rating
Combustion air, m^3/min	135	129
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load, m^3/min	332	306
Exhaust gas temperature, °C	440	415
Maximum exhaust back pressure, kPa	6.7	

Standard set-mounted radiator cooling

Ambient design, °C	40	
Fan load, kW_m	33	
Coolant capacity (with radiator), L	456	
Cooling system air flow, m^3/sec @ 12.7 mmH_2O	26.4	
Total heat rejection, Btu/min	48925	44125
Maximum cooling air flow static restriction mm H_2O	12.7	

Weights*

	Open	Enclosed
Unit dry weight kgs	14880	
Unit wet weight kgs	15945	

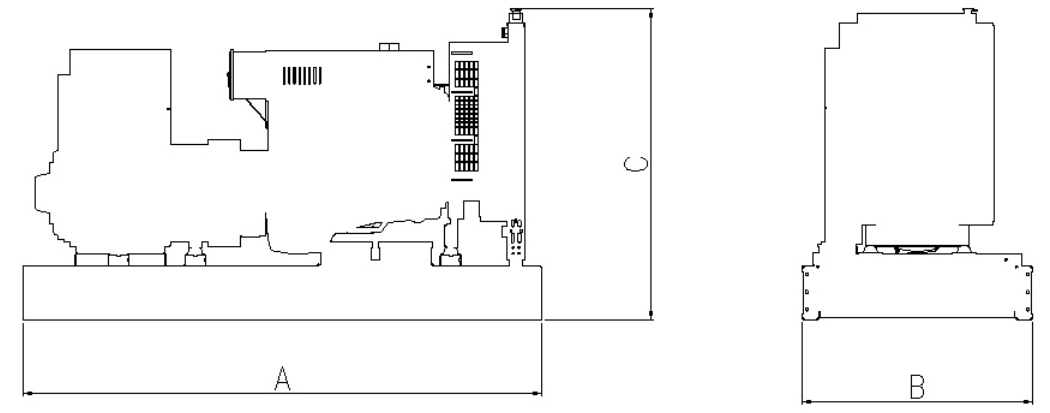
* Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions

	Length	Width	Height
Standard open set dimensions	6175	2286	2537
Standard enclosed set dimensions			

Genset outline

Open 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	105/80C	S/P	MVSI804R1	3300V
Wye, 3-phase	125/105C	S/P	HVSI804R1	6600V
Wye, 3-phase	125/105C	S/P	HVSI804R1	11000V
Wye, 3-phase	150/125C	S/P	P7F	380-440V

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, DIN 6271 and BS 5514.	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, DIN 6271 and BS 5514.	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, DIN 6271 and BS 5514.

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

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

See your distributor for more information.
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