

## Generator set data sheet



**Model:** C2000 D5e  
**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	2000 (1600) <sup>†</sup>				1825 (1460)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	37.0	64.7	95.1	123.3	34.7	59.2	85.3	114.0
L/hr	140	245	360	467	131	224	323	432

<sup>†</sup>DCC available at standby power subject to Cummins' site-specific assessment. Please contact your Cummins Distributor.

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	QSK60-GS3	
Configuration	Cast iron, 60° V16 cylinder	
Aspiration	Turbocharged and low temperature after-cooled	
Gross engine power output, kWm	1647	1540
BMEP at set rated load, kPa	2434	2193
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	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	1630
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

<b>Air</b>	<b>Standby rating</b>	<b>Prime rating</b>
Combustion air, m <sup>3</sup> /min	148	146
Maximum air cleaner restriction, kPa	6.2	

### Exhaust

Exhaust gas flow at set rated load, m <sup>3</sup> /min	361	348
Exhaust gas temperature, °C	463	452
Maximum exhaust back pressure, kPa	6.7	

### Standard set-mounted radiator cooling

Ambient design, °C	40	
Fan load, kW <sub>m</sub>	33	
Coolant capacity (with radiator), L	494	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	40	
Total heat rejection, Btu/min	41255	39250
Maximum cooling air flow static restriction mm H <sub>2</sub> O	12.7	

### Weights\*

	<b>Open</b>	<b>Enclosed</b>
Unit dry weight kgs	16872	
Unit wet weight kgs	18084	

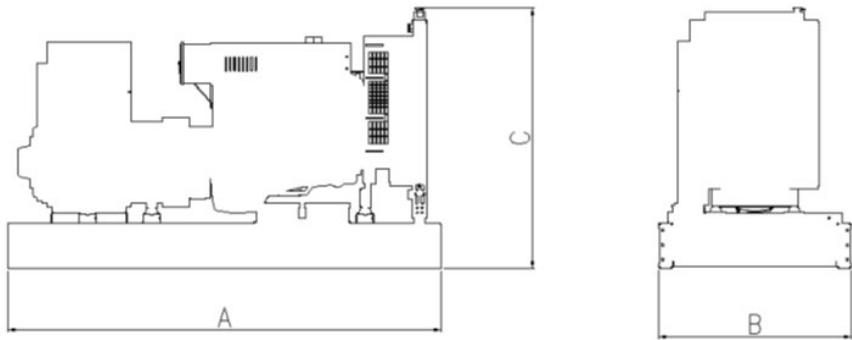
\* Weights represent a set with standard features. See outline drawing for weights of other configurations.

### Dimensions

	<b>Length</b>	<b>Width</b>	<b>Height</b>
Standard open set dimensions mm	6175	2494	3422
Enclosed set standard dimensions mm			

### 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	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	150/125	S/P	PI734F	380 – 440 V
Wye, 3-phase	105/80	S/P	S9M1D-D4	3300 V
Wye, 3-phase	125/105	S/P	S9H1D-C4	6300 – 6600 V
Wye, 3-phase	125/105	S/P	S9H1D-C4	10500 – 11000 V

## 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 data shown above represents gross engine performance and capabilities as per 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, obtained and corrected in accordance with ISO 15550.	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

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

### 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](http://power.cummins.com)

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