

» Generator set data sheet



**Model:** C2250 D5  
**Frequency:** 50  
**Fuel Type:** Diesel

<b>Spec sheet:</b>	SS17-CPGK
<b>Noise data sheet (Open/enclosed):</b>	ND50-OSHHP/ND50-CSHHP
<b>Airflow data sheet:</b>	AF50-HHP
<b>Derate data sheet (Open/enclosed):</b>	DD50-OSHHP/DD50-CSHHP
<b>Transient data sheet:</b>	RTF

<b>Fuel consumption</b>	<b>Standby</b>				<b>Prime</b>			
	<b>kVA (kW)</b>				<b>kVA (kW)</b>			
<b>Ratings</b>	2250 (1800)				2000 (1600)			
<b>Load</b>	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>
<b>gph</b>	30.3	50.4	72.0	96.0	25.1	44.0	64.0	86.6
<b>L/hr</b>	137.7	229.4	327.8	437.0	114.0	200.0	291.0	394.0

<b>Engine</b>	<b>Standby Rating</b>	<b>Prime Rating</b>
Engine manufacturer	Cummins	
Engine model	QSK60-G4	
Configuration	Cast Iron, 60° V16 Cylinder	
Aspiration	Turbo Charged and Low Temperature After-Cooled	
Gross engine power output, kWm	1915	1730
BMEP at set rated load, kPa	2544	2296
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	Stby - 280 Prime - 397	
Overspeed limit, rpm	1850 ±50	
Regenerative power, kW	146	
Governor type	Electronic	
Starting voltage	24V Volts DC	

<b>Fuel flow</b>	
Maximum fuel flow, L/hr	1893
Maximum fuel inlet restriction, mm Hg	120
Maximum fuel inlet temperature (°C)	70

Air	Standby Rating	Prime Rating
Combustion air, m <sup>3</sup> /min	144.00	136.00
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m <sup>3</sup> /min	336.0	311.0
Exhaust gas temperature, °C	450	430
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	454	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7mmH <sub>2</sub> O	26.4	
Total heat rejection, BTU/min	54030	48080
Maximum cooling air flow static restriction mmH <sub>2</sub> O	0.12	

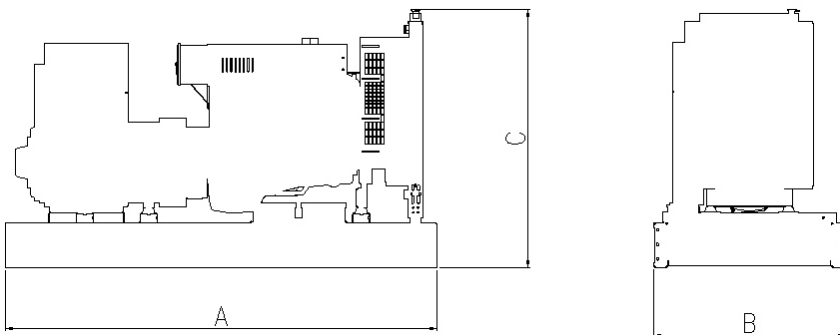
Weights*	Open	Enclosed
Unit dry weight kgs	14863	N/A
Unit wet weight kgs	15510	N/A

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

Dimensions	Length	Width	Height
Standard open set dimensions	6175.1	2286	2537.2
Enclosed set standard dimensions	N/A	N/A	N/A

### 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 <sup>1</sup>	Temp rise °C	Duty <sup>2</sup>	Alternator	Voltage
Wye, 3 Phase	150/125C	S/P	LVP7G	400-440V
Wye, 3 Phase	105C	P	HVSI804R1	480V
				#N/A
Wye, 3 Phase	125/80C	S/P/C	HVSI804R1	13.2-13.8kV
				#N/A

## 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) 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

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