

Generator set data sheet



Model: C2250 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	2250 (1800)				2000 (1600)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	36.5	60.5	86.6	115.3	30.1	52.7	76.9	103.9
L/hr	138	229	328	437	114	200	291	394

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	QSK60-G4	
Configuration	Cast iron, 60° V16 cylinder	
Aspiration	Turbocharged 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	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	1893
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

Air	Standby rating	Prime rating
Combustion air, m ³ /min	144	136
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m ³ /min	337	311
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 _m	33	
Coolant capacity (with radiator), L	456	
Cooling system air flow, m ³ /sec @ 12.7 mm H ₂ O	26.4	
Total heat rejection, Btu/min	54030	48080
Maximum cooling air flow static restriction mm H ₂ O	12.7	

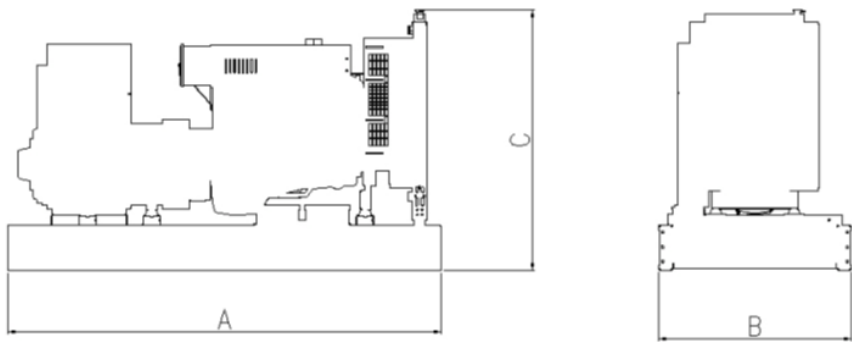
Weights*	Open	Enclosed
Unit dry weight kgs	15095	
Unit wet weight kgs	16160	

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

Dimensions	Length	Width	Height
Standard open set dimensions mm	6175	2286	2537
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	PI734G	400 – 440 V
Wye, 3-phase	105*	P	PI734G	400 – 440 V
Wye, 3-phase	150/125	S/P	MVSI804R	3300 V
Wye, 3-phase	125/105	S/P	HVSI804R	6300 – 6600 V
Wye, 3-phase	105/80	S/P	HVSI804R,S	10500 – 11000 V

*Option available only through ETO (Engineering to Order)

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	Single phase output
$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$	$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$

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

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