

Generator set data sheet



Model: C2250D5
Frequency: 50Hz
Fuel type: Diesel

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 aftercooled	
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	280	
Overspeed limit, rpm	1725 ±50	
Regenerative power, kW	146	
Governor type	Electronic	
Starting voltage	24V Volts DC	

Fuel flow

Maximum fuel flow, L/hr	1893
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

Air

Combustion air, m ³ /min	144	136
Maximum air cleaner restriction, kPa	6.2	

Our energy working for you.™

©2020 Cummins Power Generation Inc. | EA_S_CC_30_EN (9/20)

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /min	337	311
Exhaust gas temperature, °C	450	430
Maximum exhaust back pressure, kPa	6.8	

Standard set-mounted radiator cooling

Ambient design, °C	40	
Fan load, kW _m	50	
Coolant capacity (with radiator), L	541	
Cooling system air flow, m ³ /sec @ 12.7 mmH ₂ O	30	
Total heat radiated to ambient, MJ/min (Btu/min)	17.8 (16942)	16.2 (15261)
Total heat rejection, MJ/min (Btu/min)	77.2 (72972)	69.3 (65341)
Maximum cooling air flow static restriction mm H ₂ O	12.7	

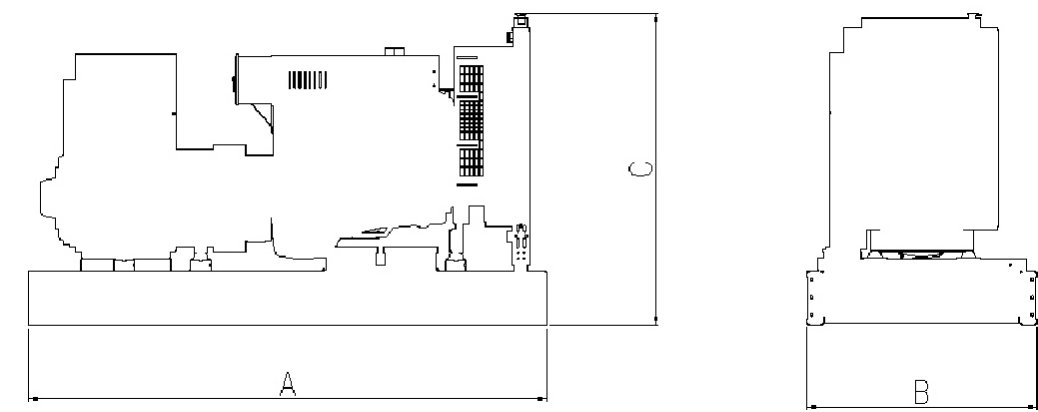
Weights*	Open
Unit dry weight kgs	15320
Unit wet weight kgs	15960

* 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	2708

Genset outline

Open set



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

Our energy working for you.™

Alternator data

Connection	Temp rise /°C	Duty	Alternator	Voltage
Wye, 3-phase	150C	S/P	PI734G1	380-440V
Wye, 3-phase	125C	S/P	HVSI804S1	10500V,11000V
Wye, 3-phase	125C	S/P	HVSI804S1	6300V,6600V

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.

Three phase output

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

Single phase output

$$\frac{\text{kW} \times \text{SinglePhas eFactor} \times 1000}{\text{Voltage}}$$

See your distributor for more information.

Cummins Power Generation

Our energy working for you.™

©2020 Cummins Power Generation Inc. All rights reserved.

Cummins Power Generation and Cummins are registered trademarks of Cummins Inc. PowerCommand, AmpSentry, InPower and "Our energy working for you." are trademarks of Cummins Power Generation. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.

EA_S_CC_30_EN (9/20)

