

Model: C275 D5
 Frequency: 50
 Fuel Type: Diesel

» Generator set data sheet

275 kVA Standby



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Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	220 (275)				200 (250)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	4.5	8.1	12.0	16.5	3.8	6.8	10.1	13.9
L/hr	17	31	46	63	14	26	38	53

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	QSL9G5	
Configuration	4 Cycle; In-line; 6 Cylinder Diesel	
Aspiration	Turbocharged and Charge Air Cooled	
Gross engine power output, kWm	310	268
BMEP at set rated load, kPa	2785	2413
Bore, mm	114	
Stroke, mm	145	
Rated speed, rpm	1500	
Piston speed, m/s	7.2	
Compression ratio	16.8:1	
Lube oil capacity, L	26.5	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kWm	26	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	165
Maximum fuel inlet restriction, mm Hg	152
Maximum fuel inlet temperature (°C)	70

Air		
Combustion air, m ³ /min	20.3	18.7
Maximum air cleaner restriction, mm H ₂ O	635	

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /min	31.1	29.2
Exhaust gas temperature, °C	560	500
Maximum exhaust back pressure, mmHg	76	

Standard set-mounted radiator		
Ambient design, °C	50	
Fan load, KW _m	9	
Coolant capacity (with radiator), L	28.6	
Cooling system air flow, m ³ /min @ 12.7mmH ₂ O	479	
Total heat rejection, BTU/min	10190	8415
Maximum cooling air flow static restriction mmH ₂ O	12.7	

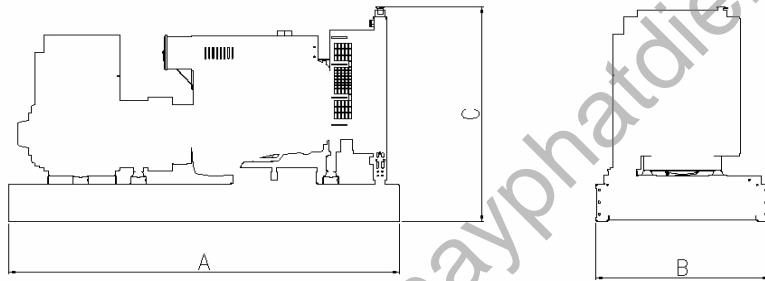
Weights*	Open	Enclosed
Unit dry weight kgs	2119	3872
Unit wet weight kgs	2684	4511

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

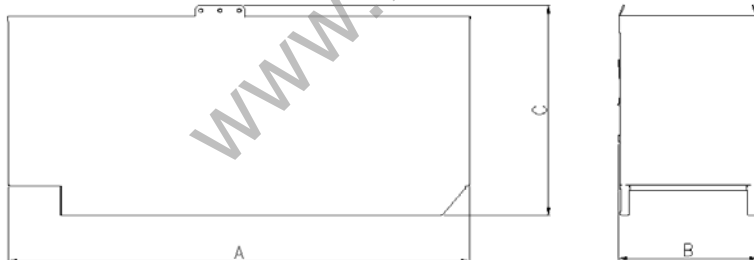
Dimensions	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	3135	1100	1928
Enclosed set standard dimensions, mm	4248	1360	2216

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.

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Alternator data

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
-	Wye, 3 Phase	163/125	S/P	UC274K	380-415V

Ratings definitions

Standby:	Limited Time Running:	Prime (unlimited running time):	Base Load (Continuous):
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 is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power 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 in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Notes:

- Limited single phase capability is available from some three phase rated configurations. To obtain single phase rating, multiply the three phase kW rating by the single phase factor. All single phase ratings are at unity power factor.
- Standby (S) and Prime (P) ratings.

Formulas for calculating full load currents:

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.732 \times 0.8}$$

Single phase output

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

See your distributor for more information.

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