

Generator Set Data Sheet	Model: C275D5 Frequency: 50 Fuel Type: Diesel
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Exhaust Emission Data Sheet:	TBC
Emissions Compliance Sheet:	TBC
Measured Sound Performance Data Sheet:	TBC
Measured Cooling Performance Data Sheet:	TBC
Prototype Test Summary Data Sheet:	TBC

Fuel Consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	220 (275)				225 (281)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	5.2	9.5	14.2	19.7	4.4	8	12	16.6
L/hr	19.8	35.6	54.4	74.2	16.7	30	45.8	62.5

Engine	Standby Rating	Prime Rating
Engine Manufacturer	Cummins	
Engine Model	QSL9 G5	
Configuration	4-Cycle; In-line; 6-Cylinder Diesel	
Aspiration	Turbo Charged	
Gross Engine Power Output, kWm (bhp)	355 (476)	307 (412)
BMEP at Set Rated Load, kPa (psi)	2668 (387)	2309 (335)
Bore, mm	114	
Stroke, mm	145	
Rated Speed, rpm	1800	
Piston Speed, m/s (ft/min)	8.7 (1707)	
Compression Ratio	16.8 : 1	
Lube Oil Capacity, L (US gph)	26.5 (7)	
Overspeed Limit, rpm	2100	
Regenerative Power, kW	47	
Fuel Flow		
Maximum Fuel Flow, L/hr (US gph)	165 (43)	
Maximum Fuel Inlet Restriction, mm Hg, (in Hg)	152 (6)	
Maximum Fuel Return Line Restriction, mm Hg (in Hg)	254 (10)	
Maximum Fuel inlet temperature, °C (°F)	70 (160)	
Combustion Air		
Combustion Air, L/s (cfm)	410 (870)	390 (820)
Maximum Air Cleaner Restriction, mm H ₂ O (in H ₂ O)	635 (25)	
Exhaust		
Exhaust Gas Flow at Set Rated Load, L/s (cfm)	640 (1355)	600 (1270)
Exhaust Gas Temperature, °C (°F)	580 (1070)	500 (945)
Maximum Exhaust Back Pressure, mmHg (in Hg)	76 (3)	

Standard Set-Mounted Radiator Cooling	Standby Rating	Prime Rating
Ambient Design, °C (°F)	50	
Fan Load, KW _m (HP)	10 (13.4)	
Coolant Capacity (with Radiator), L (US Gal.)	28.6 (7.6)	
Cooling System Air Flow, m ³ /s (scfm)	7.93 (16802)	
Total Heat Rejection, kW (BTU/min)	233 (13261)	197 (11203)
Maximum Cooling Air Flow Static Restriction, mm H ₂ o (in. H ₂ o)	12.5 (0.5)	

Weights* (Narrow Baseframe)	
Unit Dry Weight kgs	2119
Unit Wet Weight kgs	2684

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

Derating Factors (kW, kVA)					
Note: Standard genset options running at 400V, 150m above sea level.					
	27°C	40°C	45°C	50°C	55°C
Standby	220	212	205	199	193
Prime	200	193	187	181	175
Ratings Definitions					
Standby:	Prime (Unlimited Running Time):		Base Load (Continuous):		
Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. This rating is applicable to installations served by a reliable normal utility source. This rating is only applicable to variable loads with an average load factor of 80 percent of the standby rating for a maximum of 200 hours of operation per year and a maximum of 25 hours per year at 100% of its standby rating. The standby rating is only applicable to emergency and standby applications where the generator set serves as the back up to the normal utility source. No sustained utility parallel operation is permitted with this rating. (Equivalent to Fuel Stop Power in accordance with ISO3046, AS2789, DIN6271 and BS5514). Nominally Rated.	Applicable for supplying power in lieu of commercially purchased power. Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capability is available for limited time. (Equivalent to Prime Power in accordance with ISO8528 and Overload Power in accordance with ISO3046, AS2789, DIN6271, and BS5514). This rating is not applicable to all generator set models.		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 ISO8528, ISO3046, AS2789, DIN6271, and BS5514). This rating is not applicable to all generator set models.		

Alternator Data						
Voltage	Connection¹	Temp Rise Degrees C	Duty²	Single Phase Factor³	Winding No.	Feature Code
380-415V	WYE	163/125	S/P	N/A	311	B681
380-440V	WYE	125/105	S/P	N/A	311	B726

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 Factor³. All single phase ratings are at unity power factor.
- Standby (S), Prime (P) and (C) Continuous ratings.
- Factor for the *Single Phase Output from Three Phase Alternator* formula listed below
- Maximum rated starting kVA that results in a minimum of 90% of rated sustained voltage during starting.

Formulas for calculating full load currents:

Three Phase Output	Single Phase Output
$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$	$\frac{\text{kW} \times \text{Single P hase Factor} \times 1000}{\text{Voltage}}$

See your distributor for more information.



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Important: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.