

Generator set data sheet



Model: C300D2R (QSL9 Rental Product)
Frequency: 50/60 Hz
Fuel type: Diesel

Spec sheet:	S-6573
Noise data sheet (open/enclosed):	ND50OS/MSP-2070
Airflow data sheet:	AF60-550

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	300 (375)				275 (344)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	6.2	10.3	14.7	19.6	4.4	7.9	12.1	16.5
L/hr	28.0	46.7	66.8	89.0	20.0	36.0	55.0	75.0

Engine	Standby rating	Prime rating
Engine manufacturer	Tata Cummins Limited (JV)	
Engine model	QSL9-G5	
Configuration	4 cycle; In-line; 6 cylinder diesel	
Aspiration	Turbocharged and charge air cooled	
Gross engine power output, kWm	355	307
BMEP at set rated load, kPa	2668	2309
Bore, mm	114	
Stroke, mm	145	
Rated speed, rpm	1800	
Piston speed, m/s	8.7	
Compression ratio	16.8:1	
Lube oil capacity, L	26.5	
Overspeed limit, rpm	2100 ± 50	
Regenerative power, kW	35	
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	Standby rating	Prime rating
Combustion air, m ³ /min	24.70	23.30
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m ³ /min	65.2	56.1
Exhaust gas temperature, °C	580	500
Maximum exhaust back pressure, kPa	10.2	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, kW _m	18.2	
Coolant capacity (with radiator), L	40	
Cooling system air flow, m ³ /sec @ 12.7 mm H ₂ O	9.47	
Total heat rejection, Btu/min	14375	12000
Maximum cooling air flow static restriction, mm H ₂ O	19.1	

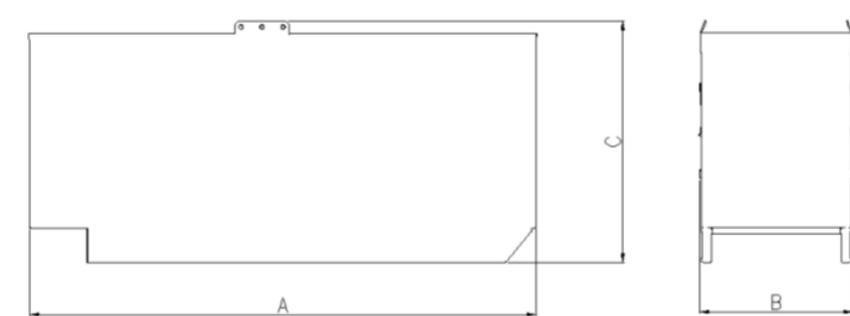
Weights*	Enclosed
Unit dry weight, kg (Standard skid)	4547
Unit wet weight, kgs (Standard skid)	5276

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

Dimensions	Length	Width	Height
Enclosed set standard dimensions, mm	4261	1424	2762

Genset outline

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	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	125/105	S/P	HC4E	416-480 V
Wye, 3-phase	150/125	S/P	HC4D	440-480 V

Emergency Standby Power (ESP):

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.

Prime Power (PRP):

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.

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

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

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

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