

# **Generator set data sheet**



Model: C330 D5

Frequency: 50 Hz Fuel type: Diesel

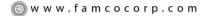
Spec sheet:	SS29-CPGK
Noise data sheet (open/enclosed):	ND50OS/MSP-2023
Airflow data sheet:	AF50-550

	Standby	Standby			Prime			
Fuel consumption	kVA (kV	kVA (kW)			kVA (kW	)		
Ratings	330 (264	330 (264)			300 (240)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	4.4	7.9	12.1	16.5	3.7	6.8	10.1	13.8
L/hr	20.0	36.0	55.0	75.0	17.0	31.0	46.0	63.0

Engine	Standby rating	Prime rating		
Engine manufacturer	Cummins	Cummins		
Engine model	QSL9-G5			
Configuration	4 cycle; in-line; 6 cylind	der diesel		
Aspiration	Turbocharged and cha	rge air-cooled		
Gross engine power output, kWm	310	268		
BMEP at set rated load, kPa	2785	2413		
Bore, mm	114			
Stroke, mm	145	145		
Rated speed, rpm	1500	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, kW	27	27		
Governor type	Electronic	Electronic		
Starting voltage	24 Volts DC	24 Volts DC		

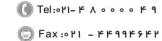
## **Fuel flow**

Maximum fuel flow, L/hr	165
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70











Air	Standby rating	Prime rating
Combustion air, m <sup>3</sup> /min	20.30	18.70
Maximum air cleaner restriction, kPa	6.2	

### **Exhaust**

Exhaust gas flow at set rated load, m <sup>3</sup> /min	53.0	44.9
Exhaust gas temperature, °C	560	500
Maximum exhaust back pressure, kPa	10.2	

# Standard set-mounted radiator cooling

<u> </u>		
Ambient design, °C	50	
Fan load, kW <sub>m</sub>	10	
Coolant capacity (with radiator), L	15	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	7.93	
Total heat rejection, Btu/min	10190	8415
Maximum cooling air flow static restriction, mm H <sub>2</sub> O	19.1	

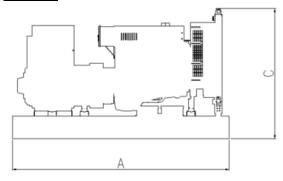
Weights*	Open	Enclosed
Unit dry weight, kgs	2346	4095
Unit wet weight, kgs	2570	4734

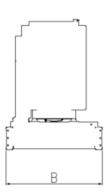
<sup>\*</sup> Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions	Length	Width	Height
Standard open set dimensions, mm	3135	1100	1928
Enclosed set standard dimensions, mm	4258	1424	2215

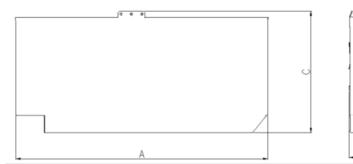
#### **Genset outline**

#### Open set

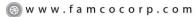




## **Enclosed set**

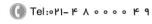


Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

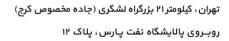




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## **Alternator data**

Connection	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	163.125	S/P	HC4D	380-415 V
Wye, 3-phase	125/105	S/P	HC4E	380-440 V

# **Ratings definitions**

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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

kW x 1000 kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8 Voltage

