

Model: C38 D5 (X Series)

Frequency: 50 Fuel Type: Diesel

» Generator set data sheet



Our energy working for you.™

Spec sheet:	SS19-CPGK
Noise data sheet (Open/enclosed):	ND50-OS550 / ND50-CS550
Airflow data sheet:	AF50-550
Derate data sheet (Open/enclosed):	DD50-OS550 / DD50-CS550
Transient data sheet:	TD50-550

	Standby	- · · · · · · · · · · · · · · · · · · ·			Prime	Prime kVA (kW)		
Fuel consumption	kVA (kW				kVA (k\			
3-Phase Ratings	38 (30.4)	38 (30.4)			35 (28)			
1-Phase Ratings	30 (30)	30 (30)			27 (27)	27 (27)		
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	0.8	1.1	1.6	2.3	0.6	0.9	1.3	1.9
L/hr	4	5	7	10	3	4	6	9

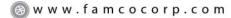
Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	X 3.3 G1	
Configuration	4 Cycle; In-line; 4 Cylinde	r Diesel
Aspiration	Naturally Aspirated	
Gross engine power output, kWm	36	32
BMEP at set rated load, kPa	804	757
Bore, mm	91.4	
Stroke, mm	127	
Rated speed, rpm	1500	
Piston speed, m/s	6.35	
Compression ratio	18.5:1	
Lube oil capacity, L	6.5	
Overspeed limit, rpm	1725 ±25	
Regenerative power, kW	2.8	
Governor type	Mechanical	
Starting voltage	12 Volts DC	

Fuel flow

Maximum fuel flow, L/hr	40
Maximum fuel inlet restriction, mm Hg	73
Maximum fuel inlet temperature (°C)	60

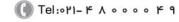
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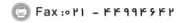
Air		
Combustion air, m³/min	1.90	1.90
Maximum air cleaner restriction, kPa	2.5	





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Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/min	2.3	2.3
Exhaust gas temperature, C	600	550
Maximum exhaust back pressure, kPa	4.75	·

50		
0.9		
9.6		
106		
1653	1539	
0.3		
	0.9 9.6 106 1653	

Open set derating factors kVA (kW)

Note: Standard open genset options running at 400V, 150m above sea level. For enclosed product derates, please refer to datasheet - DD50-CS550.

	27°C	40°C	45°C	50°C	55°C
Standby	38 (30.4)	37.3 (29.8)	36.5 (29.2)	34.3 (27.4)	33.5 (26.8)
Prime	33.9 (27.1)	33.1 (26.5)	32.5 (26)	31.8 (25.4)	31.1 (24.9)

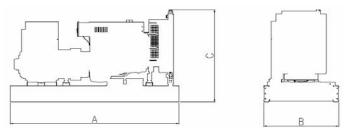
Weights*	Open	Enclosed
Unit dry weight kgs	745	1105
Unit wet weight kgs	910	1270

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

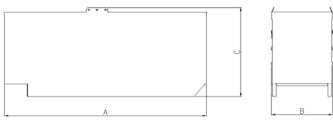
Dimensions	Length	Width	Height
Standard open set dimensions	1753	930	1250
Enclosed set standard dimensions	2242	967	1513

Genset outline

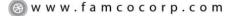
Open set



Enclosed set

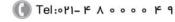


Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.





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Alternator data

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
TBC	Wye, 3 Phase	163/125	S/P	PI144H	380-440V

Ratings definitions

Emergency Standby Power (ESP)	Limited-Time running Power	Prime Power (PRP):	Base Load (Continuous) Power
Applicable for supplying power to	Applicable for supplying power to a	Applicable for supplying power to	Applicable for supplying power
varying electrical load for the	constant electrical load for limited	varying electrical load for unlimited	continuously to a constant electrical
duration of power interruption of a	hours. Limited Time Running	hours. Prime Power (PRP) is in	load for unlimited hours.
reliable utility source. Emergency	Power (LTP) is in accordance with	accordance with ISO 8528. Ten	Continuous Power (COP) in
Standby Power (ESP) is in	ISO 8528.	percent overload capability is	accordance with ISO 8528, ISO
accordance with ISO 8528. Fuel		available in accordance with ISO	3046, AS 2789, DIN 6271 and BS
Stop power in accordance with ISO		3046, AS 2789, DIN 6271 and BS	5514.
3046, AS 2789, DIN 6271 and BS		5514.	
5514.			

Formulas for calculating full load currents:

Three phase output Single phase output

kWx1000 kWxSingleP haseFactor x1000

Voltagex1. 73x0.8 Voltage