





Model: C170 D5

Frequency: 50 Fuel type: Diesel

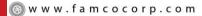
Spec sheet:	SS28-CPGK	
Noise data sheet (open/enclosed):	ND50-CS550	
Airflow data sheet:	AF50-550	
Derate data sheet (open/enclosed):	TBD	
Transient data sheet:	TD50-550	

	Standby				Prime			
Fuel consumption	kVA (kW)			kVA (kW)				
Ratings	170 (136)	170 (136)			155 (124)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	4.0	6.1	8.3	10.5	3.2	5.3	8.1	9.5
L/hr	15.20	23.20	31.50	39.60	12.10	20.00	30.60	36.00

Engine	Standby rating	Prime rating		
Engine manufacturer	TCL	<u> </u>		
Engine model	6BTAA5.9-G7			
Configuration	4-cycle, In-line, 6-cylind	der,		
Aspiration	Turbocharged and char	ged air cooled		
Gross engine power output, kWm	160	145		
BMEP at set rated load, kPa	2178	1972		
Bore, mm	102			
Stroke, mm	120	120		
Rated speed, rpm	1500	1500		
Piston speed, m/s	6			
Compression ratio	16.5 :1			
Lube oil capacity, L	16.4			
Overspeed limit, rpm	1800			
Regenerative power, kW	NA	NA		
Governor type	Electronic	Electronic		
Starting voltage	12V			

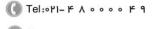
Fuel flow

Maximum fuel flow, L/hr	45
Maximum fuel inlet restriction, mm Hg	101 / 203 (clean / dirty filter)
Maximum fuel inlet temperature, °C	71











Air	Standby rating	Prime rating
Combustion air, m³/min	12.43	11.81
Maximum air cleaner restriction, kPa	4	

Exhaust

Exhaust gas flow at set rated load, m³/min	32.37	31.12
Exhaust gas temperature, °C	533	517
Maximum exhaust back pressure, kPa	10.25	

Standard set-mounted radiator cooling

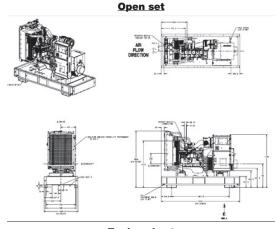
Ambient design, °C	50	
Fan load, kW _m	9.8	
Coolant capacity (with radiator), L	22.1	
Cooling system air flow, m³/sec @ 12.7 mmH ₂ O	3.77	
Total heat rejection, Btu/min	3128 2900	
Maximum cooling air flow static restriction mm H ₂ O	12.7	

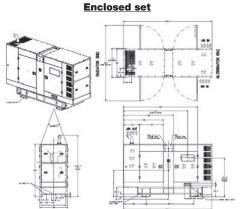
Weights*	Open	Enclosed
Unit dry weight kgs	1635	2390
Unit wet weight kgs	1650	2400

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

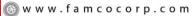
Dimensions	Length	Width	Height
Standard open set dimensions	2537	1090	1846
Standard enclosed set dimensions	3460	1090	2387

Genset outline





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 ¹	Temp rise °C	Duty ²	Alternator	Voltage
WYE	163	ESP	UCI274F	190-208 & 380 - 416 V
WYE	150	ESP	UCI274G	190-208 & 380 - 416 V
WYE	125	PRP	UCI274F	190-208 & 380 - 416 V
WYE	105	PRP	UCI274G	190-208 & 380 - 416 V

Ratings definitions

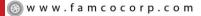
Emergency standby power (ESP):	Limited-time running power (LTP):	Prime power (PRP):	Base load (continuous) power (COP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 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 Voltage x 1.73 x 0.8 $\frac{\text{kW x SinglePhaseFactor x 1000}}{\text{Voltage}}$





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