

Generator set data sheet



Model: C550D5
Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:	EMERS-5888-EN
Noise data sheet (open/enclosed/enclosed*):	TBD/TBD/MSP-4046
Cooling data sheet(open/enclosed/enclosed*):	MCP-2092/TBD/TBD
Prototype test summary data sheet:	PTS-679
Alternator data sheet:	ADS-636, ADS-637

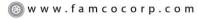
*Enclosed with 4-point chassis lift.

	Standb	Standby			Prime	Prime		
Fuel consumption	kVA (kV	kVA (kW)			kVA (kW)			
Ratings	550 (440	550 (440)			500 (400)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
Gal (UK)/hr	5.7	10.8	15.8	21.2	5.3	9.9	14.4	19.2
L/hr	26.1	48.9	72.0	96.4	24.0	44.8	65.6	87.3

Engine	Standby rating	Prime rating		
Engine manufacturer	Cummins	·		
Engine model	QSZ13-G10			
Configuration	4 cycle; in-line 6 cylind	er diesel		
Aspiration	Turbocharged and cha	rge air-cooled		
Gross engine power output, kWm	509	463		
BMEP at set rated load, kPa	3132	2849		
Bore, mm	130	·		
Stroke, mm	163	163		
Rated speed, rpm	1500	1500		
Piston speed, m/s	8.15	8.15		
Compression ratio	17.1	17.1		
Lube oil capacity, L	75.3			
Overspeed limit, rpm	1500 ±10%	1500 ±10%		
Regenerative power, kW	33	33		
Governor type	Electronic	Electronic		
Starting voltage	24 Volts DC	24 Volts DC		

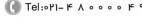
Fuel flow

Maximum fuel flow, L/hr	276
Maximum fuel inlet restriction, mm Hg	101
Maximum fuel inlet temperature, °C	71





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Air	Standby rating	Prime rating
Combustion air, m³/min	31.68	29.0
Maximum air cleaner restriction, kPa	3.7 – 6.2	

Exhaust

Exhaust gas flow at set rated load, m³/min	90.4	87.9
Exhaust gas temperature, °C	554	531
Maximum exhaust back pressure, kPa	10	

Standard set-mounted radiator cooling

Ambient design, °C	50	
Fan load, kWm	14.2	
Coolant capacity (with radiator), L	77.1	
Cooling system air flow, m³/sec @ 12.7 mm H ₂ O	10.3	
Total heat rejection, Btu/min	40320	35293
Maximum cooling air flow static restriction mm H ₂ O	25.4	

Weights*	Open	Enclosed
Unit dry weight kgs	4120	5439/5049**
Unit wet weight kgs	4239	5558/5168**

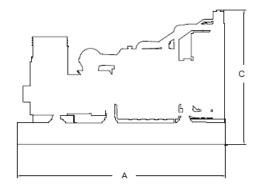
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations.
**Weights are for 4-point chassis lift.

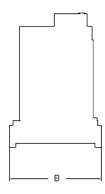
Dimensions	Length	Width	Height
Standard open set dimensions mm	3376	1500	2191
Enclosed set standard dimensions mm	5095/5095**	1564/1564**	2441/2330**

^{**}Dimensions are for 4-point chassis lift.

Genset outline

Open set





Enclosed set





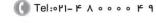
Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

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Alternator data

Connection	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	150/125	S/P	S5D	400
Wye, 3-phase	125/105	S/P	S5E	190-220;380-440

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 kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8 Voltage

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