

» Generator set data sheet

Maximum fuel inlet temperature (°C)

Model: C450 D5e Frequency: 50 Fuel Type: Diesel

Spec sheet: Noise data sheet (Open/enclosed): Airflow data sheet: Derate data sheet (Open/enclosed):			SS11-CF	SS11-CPGK					
			ND50-O	S550 / ND50	-CS550				
			AF50-550						
			DD50-OS550 / DD50-CS550						
Transient data sheet:			TD50-550						
			·		·				
Standby		Prime							
Fuel consumption	kVA (kW)		kVA (kW)		V)	1			
Ratings	450 (360	0)			409 (327	409 (327)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	
gph	6.8	11.6	16.3	20.7	6.4	10.7	14.9	19.1	
L/hr	31.0	52.7	74.0	94.2	29.3	48.6	67.9	86.8	
Engine			Standby Rating			Prime R	Prime Rating		
Engine manufacturer			Cummins						
Engine model		QSX15 G8							
Configuration			4 Cycle; In-line; 6 Cylinder Diesel						
Aspiration			Turbocharged and Aftercooled						
Gross engine power output, kWm			500 444						
BMEP at set rated load, kPa			2675 2371						
Bore, mm			137						
Stroke, mm			169						
Rated speed, rpm			1500						
Piston speed, m/s			8.4						
Compression ratio			17:1						
Lube oil capacity, L			91						
Overspeed limit, rpm			1500 ±10%						
Regenerative power, kW			37						
Governor type			Electronic						
Starting voltage			24 Volts DC						
Fuel flow									
Maximum fuel flow, L/hr			424						
Maximum fuel inlet restriction, mm Hg			407	127					

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Air	Standby Rating	Prime Rating
Combustion air, m³/min	36.27	32.50
Maximum air cleaner restriction, kPa	3.73 - 6.22	<u>'</u>
Exhaust		
Exhaust gas flow at set rated load, m³/min	82.2	75.3
Exhaust gas temperature, °C	515	488
Maximum exhaust back pressure, kPa	10.2	·
· ·	50	
Standard set-mounted radiator cooling Ambient design, °C Fan load, KW _m	50 16	
Ambient design, [°] C Fan load, KW _m		
Ambient design, °C	16	
Ambient design, [°] C Fan load, KW _m Coolant capacity (with radiator), L	16 65.9	13700

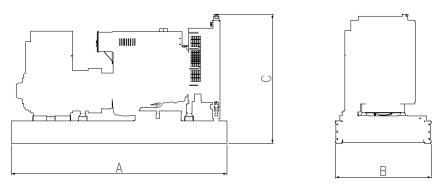
Weights*	Open	Enclosed
Unit dry weight kgs	3987	5292
Unit wet weight kgs	4825	6130

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

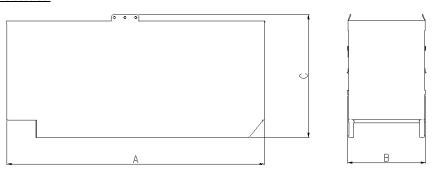
Dimensions	Length	Width	Height
Standard open set dimensions	3427	1500	2066
Enclosed set standard dimensions	5106	1553	2447

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.

Alternator data

Connection ¹	Temp rise °C	Duty ²	Alternator	Voltage
Wye, 3 Phase	163/125C	S/P	HC5C	380-440V
Wye, 3 Phase	125/105C	S/P	HC5D	380-440V

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) 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

kWx1000 kWxSinglePhaseFactorx1000

Voltagex1.73x0.8

Voltage

See your distributor for more information.

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