

## Generator set data sheet



**Model:** C440 D5  
**Frequency:** 50 Hz  
**Fuel type:** Diesel

<b>Spec sheet:</b>	SS10-CPGK
<b>Noise data sheet (open/enclosed):</b>	ND50-OS550/ND50-CS550
<b>Airflow data sheet:</b>	AF50-550
<b>Derate data sheet (open/enclosed):</b>	DD50-OS550/DD50-CS550
<b>Transient data sheet:</b>	TD50-550

<b>Fuel consumption</b>	<b>Standby</b>				<b>Prime</b>			
	<b>kVA (kW)</b>				<b>kVA (kW)</b>			
Ratings	440 (352)				400 (320)			
Load	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>
gph	5.6	11.0	15.8	21.5	5.3	8.8	13.6	17.1
L/hr	25.70	50.00	72.00	97.70	24.00	40.00	62.00	78.00

<b>Engine</b>	<b>Standby rating</b>	<b>Prime rating</b>
Engine manufacturer	Cummins	
Engine model	NTA855-G7	
Configuration	4 cycle, in-line, 6 cylinder diesel	
Aspiration	Turbocharged and after-cooled	
Gross engine power output, kWm	391	352
BMEP at set rated load, kPa	2234	1988
Bore, mm	140	
Stroke, mm	152	
Rated speed, rpm	1500	
Piston speed, m/s	7.6	
Compression ratio	0.584027778	
Lube oil capacity, L	34.1	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kW	30	
Governor type	Electronic	
Starting voltage	24 Volts DC	

<b>Fuel flow</b>	
Maximum fuel flow, L/hr	372
Maximum fuel inlet restriction, mm Hg	152
Maximum fuel inlet temperature, °C	70

<b>Air</b>	<b>Standby rating</b>	<b>Prime rating</b>
Combustion air, m <sup>3</sup> /min	31.60	28.50
Maximum air cleaner restriction, kPa	6.2	

<b>Exhaust</b>		
Exhaust gas flow at set rated load, m <sup>3</sup> /min	84.3	78.0
Exhaust gas temperature, °C	553	525
Maximum exhaust back pressure, kPa	10.2	

<b>Standard set-mounted radiator cooling</b>		
Ambient design, °C	50	
Fan load, kW <sub>m</sub>	8	
Coolant capacity (with radiator), L	45	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	7.5	
Total heat rejection, Btu/min	15128	13615
Maximum cooling air flow static restriction mm H <sub>2</sub> O	19.1	

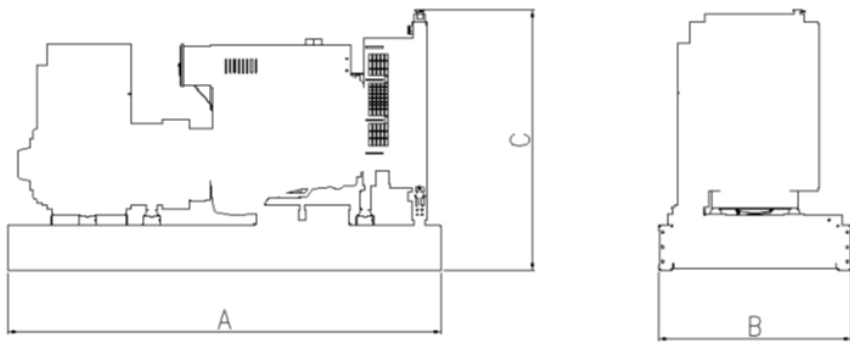
<b>Weights*</b>	<b>Open</b>	<b>Enclosed</b>
Unit dry weight kgs	3234	5041
Unit wet weight kgs	3683	5818

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

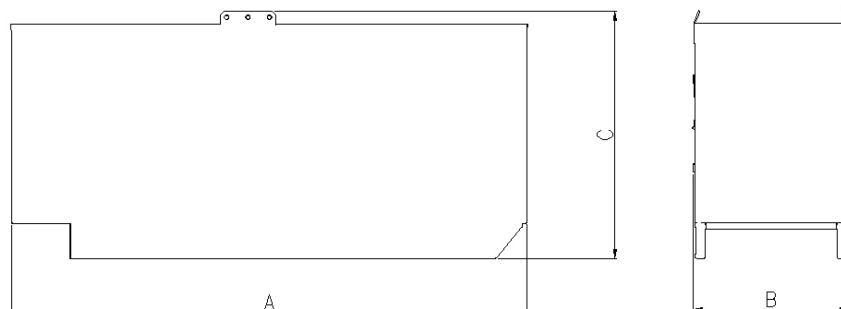
<b>Dimensions</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>
Standard open set dimensions mm	3230	1245	1941
Enclosed set standard dimensions mm	5110	1563	2447

## 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	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	150/125	S/P	HC5C	380-415 V
Wye, 3-phase	150/125	S/P	HC5E	380-480 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

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

### Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

For more information contact your local Cummins distributor or visit [power.cummins.com](http://power.cummins.com)

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