

**Model:** C1100 D5  
**Frequency:** 50  
**Fuel Type:** Diesel

» Generator set data sheet



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<b>Spec sheet:</b>	<b>SS13-CPGK</b>
<b>Noise data sheet (Open/enclosed):</b>	<b>ND50-OSHHP / ND50-CS550</b>
<b>Airflow data sheet:</b>	<b>AF50-HHP</b>
<b>Derate data sheet (Open/enclosed):</b>	<b>DD50-OSHHP / DD50-CSHHP</b>
<b>Transient data sheet:</b>	<b>TD50-HHP</b>

<b>Fuel consumption</b>	<b>Standby</b>				<b>Prime</b>			
	<b>kVA (kW)</b>				<b>kVA (kW)</b>			
Ratings	1110 (888)				1000 (800)			
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	13.1	23.6	36.1	49.2	11.9	22.4	33.2	44.4
L/hr	59.70	107.40	164.20	224.00	54.00	102.00	151.00	202.00

<b>Engine</b>	<b>Standby rating</b>	<b>Prime rating</b>
Engine manufacturer	Cummins	
Engine model	QST30-G4	
Configuration	Cast Iron, 50° V12 Cylinder	
Aspiration	Turbo Charged and After-Cooled	
Gross engine power output, kWm	970	880
BMEP at set rated load, kPa	2544	2310
Bore, mm	140	
Stroke, mm	165	
Rated speed, rpm	1500	
Piston speed, m/s	8.3	
Compression ratio	14:1	
Lube oil capacity, L	154	
Overspeed limit, rpm	2100 ±50	
Regenerative power, kW	58	
Governor type	Electronic	
Starting voltage	24 Volts DC	

<b>Fuel flow</b>	
Maximum fuel flow, L/hr	550
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	71

<b>Air</b>	
Combustion air, m <sup>3</sup> /min	60.30
Maximum air cleaner restriction, kPa	6.2



<b>Exhaust</b>	<b>Standby rating</b>	<b>Prime rating</b>
Exhaust gas flow at set rated load, m <sup>3</sup> /min	178.6	164.7
Exhaust gas temperature, C	575	565
Maximum exhaust back pressure, kPa	6.8	

<b>Standard set-mounted radiator cooling</b>		
Ambient design, °C	40	
Fan load, KW <sub>m</sub>	17	
Coolant capacity (with radiator), L	220	
Cooling system air flow, m3/sec @ 12.7mmH2O	17.2	
Total heat rejection, BTU/min	28500	26390
Maximum cooling air flow static restriction mmH2O	19.1	

### 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-CSHHP.

	<b>27°C</b>	<b>40°C</b>	<b>45°C</b>	<b>50°C</b>	<b>55°C</b>
<b>Standby</b>	1110 (888)	1110 (888)	1110 (888)	1110 (888)	RTF
<b>Prime</b>	1000 (800)	1000 (800)	1000 (800)	1000 (800)	RTF

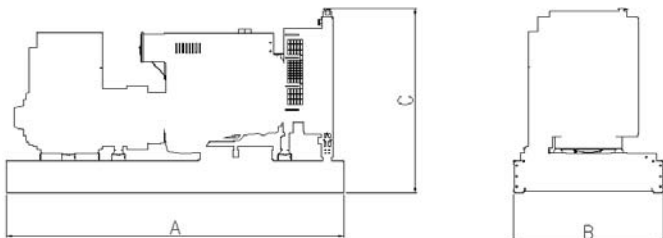
<b>Weights*</b>	<b>Open</b>	<b>Enclosed</b>
Unit dry weight kgs	7195	N/A
Unit wet weight kgs	7374	N/A

\* 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	4571	1702	2332
Enclosed set standard dimensions	N/A	N/A	N/A

### 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

Feature code	Connection <sup>1</sup>	Temp rise degrees C	Duty <sup>2</sup>	Alternator	Voltage
B729	Wye, 3 Phase	150/125C	S/P	HC6K	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

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

### Single phase output

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

See your distributor for more information.

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