

## Generator set data sheet



**Model:** C1400 D5  
**Frequency:** 50  
**Fuel type:** Diesel

<b>Spec sheet:</b>	SS16-CPGK
<b>Noise data sheet (open/enclosed):</b>	ND50-OSHHP/ND50-CSHHP
<b>Airflow data sheet:</b>	AF50-HHP
<b>Derate data sheet (open/enclosed):</b>	DD50-OSHHP/DD50-CSHHP
<b>Transient data sheet:</b>	RTF

<b>Fuel consumption</b>	<b>Standby</b>				<b>Prime</b>			
	kVA (kW)				kVA (kW)			
Ratings	1400 (1120)				1250 (1000)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	21.9	40.4	58.4	77.4	20.0	36.6	52.5	69.0
L/hr	83	153	221	293	76	139	199	261

<b>Engine</b>	<b>Standby rating</b>	<b>Prime rating</b>
Engine manufacturer	Cummins	
Engine model	KTA50-G3	
Configuration	Cast iron, 60 ° V16 cylinder	
Aspiration	Turbocharged and aftercooled	
Gross engine power output, kWm	1227	1097
BMEP at set rated load, kPa	1951	1744
Bore, mm	159	
Stroke, mm	159	
Rated speed, rpm	1500	
Piston speed, m/s	7.9	
Compression ratio	13.9:1	
Lube oil capacity, L	152	
Overspeed limit, rpm	1725 ±50	
Regenerative power, kW	116	
Governor type	Electronic	
Starting voltage	24V Volts DC	

<b>Fuel flow</b>	
Maximum fuel flow, L/hr	625
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature, °C	70

<b>Air</b>	<b>Standby rating</b>	<b>Prime rating</b>
Combustion air, m <sup>3</sup> /min	104.8	96.3
Maximum air cleaner restriction, kPa	6.2	

### Exhaust

Exhaust gas flow at set rated load, m <sup>3</sup> /min	240.7	223.6
Exhaust gas temperature, °C	525	520
Maximum exhaust back pressure, kPa	6.7	

### Standard set-mounted radiator cooling

Ambient design, °C	40	
Fan load, kWm	21	
Coolant capacity (with radiator), L	424	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mmH <sub>2</sub> O	27.6	
Total heat rejection, Btu/min	44000	38500
Maximum cooling air flow static restriction mm H <sub>2</sub> O	12.7	

### Weights\*

	<b>Open</b>	<b>Enclosed</b>
Unit dry weight kgs	9190	17002
Unit wet weight kgs	9613	17425

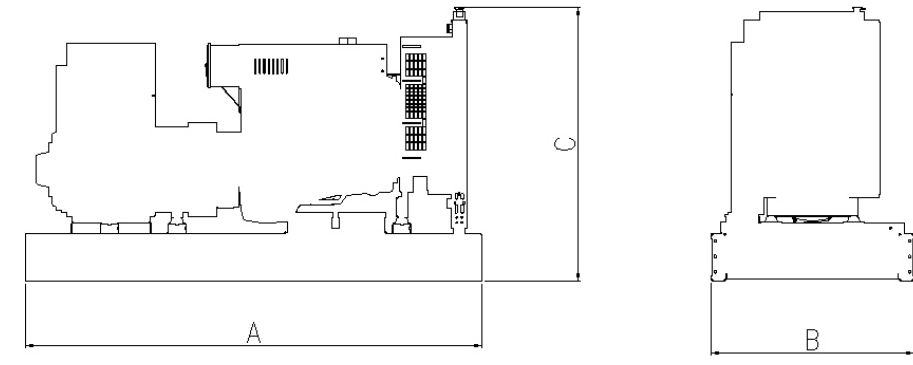
\* Weights represent a set with standard features. See outline drawing for weights of other configurations.

### Dimensions

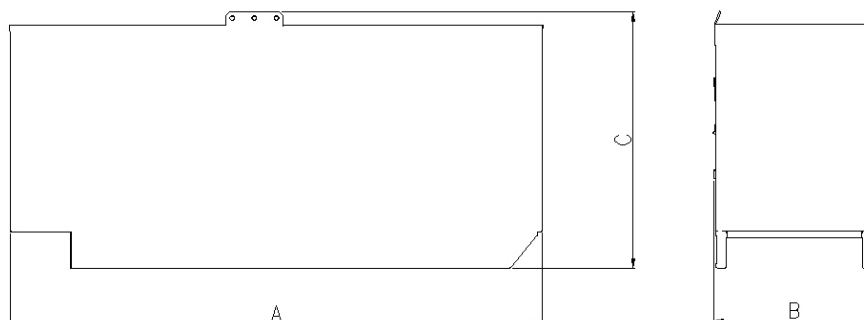
	<b>Length</b>	<b>Width</b>	<b>Height</b>
Standard open set dimensions	5105	2000	2238
Enclosed set standard dimensions (with exhaust stack)	12192	2438	2896 (3233)

### 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	150/125C	S/P	P7B	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) 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

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

### See your distributor for more information.

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