### » Generator set data sheet

Model: C1400 D5 Frequency: 50 Fuel Type: Diesel



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

	Standby	<b>,</b>			Prime	Prime kVA (kW)		
Fuel consumption	kVA (kW				kVA (kW			
Ratings	1400 (11	1400 (1120)			1250 (10	1250 (1000)		
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	18.2	33.6	48.6	64.4	16.7	30.5	43.7	57.4
L/hr	83.0	153.0	221.0	293.0	76.0	139.0	199.0	261.0

Engine	Standby Rating	Prime Rating
Engine manufacturer	Cummins	•
Engine model	KTA50-G3	
Configuration	Cast Iron, 60° V16 Cylinder	г
Aspiration	Turbo Charged and After-C	Cooled
Gross engine power output, kWm	1228	1097
BMEP at set rated load, kPa	1930.5	1730.6
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	204	
Overspeed limit, rpm	1850 ±50	
Regenerative power, kW	116	
Governor type	Electronic	
Starting voltage	24V Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	624
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	70

Air	Standby Rating	Prime Rating	
Combustion air, m <sup>3</sup> /min	104.90	96.40	
Maximum air cleaner restriction, kPa	6.2		
Exhaust			
Exhaust gas flow at set rated load, m³/min	240.6	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, KW <sub>m</sub>	21		
Coolant capacity (with radiator), L	345		
Cooling system air flow, m3/sec @ 12.7mmH2O	27.1		

44000

0.12

38500

Weights*	Open	Enclosed
Unit dry weight kgs	9099	RTF
Unit wet weight kas	10075	RTF

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

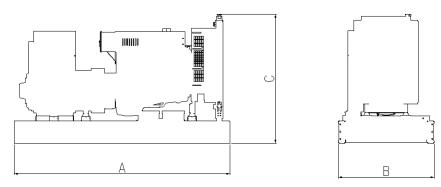
Dimensions	Length	Width	Height
Standard open set dimensions	5105	2000	2238
Enclosed set standard dimensions	RTF	RTF	RTF

#### **Genset outline**

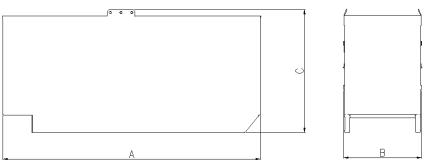
Total heat rejection, BTU/min

Maximum cooling air flow static restriction mmH2O

#### 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 <sup>1</sup>	Temp rise °C	Duty <sup>2</sup>	Alternator	Voltage
Wye, 3 Phase	150/125	S/P	P7B	380-440V
				#N/A
Wye, 3 Phase	125/80C	S/P/C	HVSI804R1	11000V
			LVP7F	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