Model: C1400 D5
Frequency: 50
Fuel Type: Diesel

» Generator set data sheet
1400 kVA Standby

Our energy working for you.™

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**

Fuel consumption	**Standby**				**Prime**			
	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	18.2	33.6	48.6	64.4	16.7	30.5	43.7	57.4
L/hr	83	153	221	293	76	139	199	261

Engine	**Standby rating**	**Prime rating**
Engine manufacturer	Cummins	
Engine model	KTA50-G3	
Configuration	Cast Iron, 60° V16 Cylinder	
Aspiration	Turbo Charged and After-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		
Combustion air, m^3/min	104.9	96.4
Maximum air cleaner restriction, kPa	6.2	

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روبـروی پالایشگاه نفت پـارس، پلاک ۱۲

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m^3/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_m	46.3	
Coolant capacity (with radiator), L	345	
Cooling system air flow, m3/min @ 12.7mmH2O	27.1	
Total heat rejection, BTU/min	44000	38500
Maximum cooling air flow static restriction mmH2O	0.12	

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.

	27°C	40°C	45°C	50°C	55°C
Standby	1400 (1120)	1400 (1120)	1400 (1120)	1372.5 (1098)	RTF
Prime	1250 (1000)	1250 (1000)	1250 (1000)	1247.5 (998)	RTF

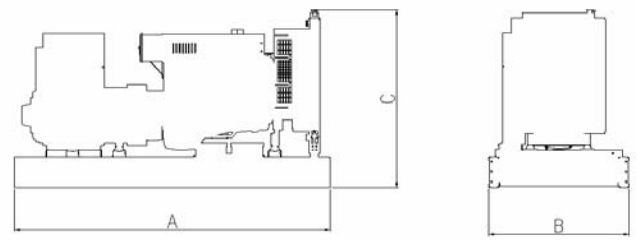
Weights*	Open	Enclosed
Unit dry weight kgs	9099	RTF
Unit wet weight kgs	10075	RTF

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

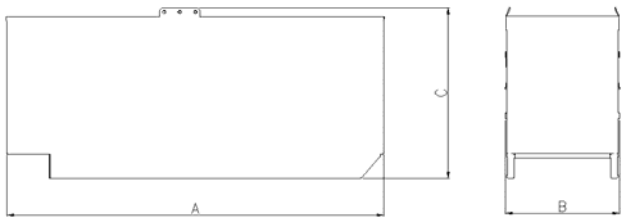
Dimensions	Length	Width	Height
Standard open set dimensions	5105	2000	2238
Enclosed set standard dimensions	RTF	RTF	RTF

Genset outline

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

Feature code	Connection[1]	Temp rise degrees C	Duty[2]	Alternator	Voltage
B667	Wye, 3 Phase	150/125	S/P	P7B	380-440V

Ratings definitions

Emergency Standby Power (ESP)	Limited-Time running Power	Prime Power (PRP):	Base Load (Continuous) Power
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

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

Single phase output

$$\frac{kW \times SingleP\ haseFactor \times 1000}{Voltage}$$

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