Generator set data sheet

Model: C1400 D5 (Containerized)
Fuel type: Diesel

Fuel consumption 50 Hz

	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
L/hr	83	153	221	293	76	139	199	261

Engine

	Standby rating	Prime rating
Gross engine power output 50 Hz, kWm	1228	1097
BMEP at set rated load 50 Hz, kPa	1930	1730
Engine manufacturer	Cummins	
Engine model	KTA50 G3	
Configuration	4 cycle, 60 ° vee, 16 cylinder	
Aspiration	Turbocharged and aftercooled	
Bore, mm	159	
Stroke, mm	159	
Rated speed 50 Hz, rpm	1500	
Piston speed 50 Hz, m/s	7.9	
Compression ratio	13.9:1	
Lube oil capacity, L	204	
Overspeed limit 50Hz, rpm	1850 ± 50	
Regenerative power 50 Hz, kW	116	
Governor type	Elec.	

Fuel flow

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

Air

Combustion air 50 Hz, m^3/min	104.8	96.3
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load 50 Hz, m^3/min	240.7	223.7
Exhaust gas temperature 50 Hz, ºC	525	520
Maximum exhaust back pressure, kPa	6.7	

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Standard set-mounted radiator cooling

	Standby rating	Prime rating
Ambient design, °C	50	
Fan load, kWm 1500 rpm	46.3	
Coolant capacity (with radiator), L	345	
Total heat rejection, Btu/min 1500 rpm	44000	38500

Weights*

Unit dry weight kgs	18940
Unit wet weight kgs	19370

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

Dimensions

	Length	Width	Height
Enclosed set standard dimensions, m	12.192	2.438	2.896

Alternator data

Alternator	Connection	Temp rise ºC	Duty	Voltage 50 Hz, L-L
P7B	Series Star, 3Ph	150/40 / 125/40	Standby/Prime	380, 400, 415

Noise data 50Hz

Enclosed set sound power level, dB(A)	105 dB(A)
Enclosed set sound pressure level , dB(A) @ 75% prime, 7m	74 dB(A)
Enclosed set sound pressure level , dB(A) @ 75% prime, 1m	82 dB(A)

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.
Cummins Power Generation East Asia
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GLD-6126a-EN (9/15)

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