



Frequency : 50Hz
 Fuel Type : Diesel

COOL POWER GENSET TECHNICAL DATA



Model **CPC1400E**
 Standby power 1120 kW / 1400 kVA
 Prime power 1000 kW / 1250 kVA

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	1120 (1400)				1000 (1250)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
L/hr	N.A	N.A	N.A	288	79	139	197	256

Engine	
Engine manufacturer	Cummins (Indian)
Engine model	KTA50-G3
Configuration	4-Cycle; 60° Vee; 16-Cylinder Diesel
Aspiration	Turbocharged & Aftercooled
Gross engine power output -- kWm	1227
BMEP at set rated load -- kPa	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	177
Overspeed limit -- rpm	N/A
Regenerative power -- kWm	116
Governor type	Electrical
Starting voltage	24 Volts DC

Fuel flow	
Recommended fuel	ASTM NO.2-D
Governor Type	Electrical
Max fuel transfer pump suction--(m)	1.4

Oil system	
Oil system capacity--(L)	177
Recommended oil	API-CD OR BETTER
Oil normal temperature--(°C)	121
Oil consumption at 100%	0.83

Air	
Combustion air -- m ³ /min	99.3

Exhaust	
Exhaust flow--(m ³ /min)	240.66
Exhaust temperature--(°C)	≤525
Allowable restriction--(kPa)	6.8

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Exhaust pipe diameter--(mm)	Φ 159x2
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Standard set-mounted radiator cooling

Radiator and engine capacity--(L)	297
Fan power--(kW)	22
Fan Air flow--(m ³ /min)	TBD
Coolant normal temperature--(°C)	82-93
Max water temperature--(°C)	104
Type of coolant	Glycol

Alternator

Alternator manufacturer	Stamford
Alternator model	PI734B
Control System	PMG
Insulation class	H
Temperature Rise	H
Rated Power Factor	0.8
Winding Pitch	Two Thirds
Voltage adjust scope	≥ ±5%
Weight--(kg)	2541
A.V.R.	MX341
Protection	IP 23
Stator Winding	Double layer Concentric
Winding Leads	12
Voltage regulation	≤ ±10%
Bearing number	1
Cooling Air--(m ³ /sec)	1.614

Weights*

	Open	Enclosed
Unit wet weight kgs	10500	N.A.

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

Dimensions

	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	4920	2057	2320

Control Panel

Manual Control Panel:	Auto Control Panel:	Remote control Panel:
Manual start	Manual and auto start	All the parameter can display on LCD screen
Voltage, Current, Frequency, Battery voltage, Hour meter, Charger Alternator Voltage and Speed(R.P.M) can be displayed by means of LCD	The parameter of Voltage, Current, Frequency, Battery voltage, Hour meter, Charger Alternator Voltage and Speed(R.P.M) can be displayed on LCD screen	It includes all the function of manual and auto control panel.
Emergency stop pushbutton	Emergency stop push button	Detect RPM of the gen-set, active power, power factor and so on. It also can detect main parameter, include main voltage, main frequency. Event and performance log

See your distributor for more information.

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