



Frequency : 50Hz  
 Fuel Type : Diesel

## COOL POWER GENSET TECHNICAL DATA



**Model**                    **CPC450E**  
 Standby power        360kW / 450kVA  
 Prime power            320kW / 400kVA

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	360(450)				320(400)			
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	92.3	24.2	40.9	60	80.9

### Engine

Engine manufacturer	DCEC
Engine model	6ZTAA13-G2
Configuration	4-Cycle;in-line; 6-Cylinder Diesel
Aspiration	Turbocharged and Air to air cooled
Gross engine power output -- kWm	415
BMEP at set rated load -- kPa	2400
Bore -- mm	130
Stroke -- mm	163
Rated speed -- rpm	1500
Piston speed -- m/s	8.15
Compression ratio	17:1
Lube oil capacity -- L	45.42
Overspeed limit -- rpm	2250
Regenerative power -- kWm	31
Governor type	Electrical
Starting voltage	24 Volts DC

### Fuel flow

Recommended fuel	ASTM
Governor Type	Electrical
Max fuel transfer pump suction--(m)	2.1

### Oil system

Oil system capacity--(L)	45.42
Recommended oil	API-CD OR BETTER
Oil max temperature--(°C)	121
Oil consumption at 100%--(L/hr)	0.128

### Air

Combustion air -- m <sup>3</sup> /min	29.2
---------------------------------------	------

### Exhaust

Exhaust flow--(kg/min)	30.6
Exhaust temperature--(°C)	668

Allowable restriction--(kPa)	13
Exhaust pipe diameter--(mm)	Φ 130

### Standard set-mounted radiator cooling

Engine capacity--(L)	23.1
Fan power--(kW)	16.6
Fan Air flow--(m <sup>3</sup> /min)	N.A
Coolant normal temperature--(°C)	82-94
Max water temperature--(°C)	102
Type of coolant	50% ethylene glycol; 50% water

### Alternator

Alternator manufacturer	Stamford
Alternator model	HCI444F
Control System	SELF-EXCITED
Insulation class	H
Temperature Rise	H
Rated Power Factor	1
Winding Pitch	Two Thirds
Voltage adjust scope	≥ ±5%
Weight--(kg)	1160
A.V.R.	AS440
Protection	IP 23
Stator Winding	Double layer Concentric
Winding Leads	12
Voltage regulation	≤ ± 1%
Bearing number	1
Cooling Air--(m <sup>3</sup> /sec)	0.8

### Weights\*

	Open	Enclosed
Unit wet weight kgs	4250	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	3050	1360	2090

### 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. Detect RPM of the gen-set, active power, power factor and so on.
Emergency stop pushbutton	Emergency stop push button	It also can detect main parameter, include main voltage, main frequency. Event and performance log

See your distributor for more information.

COOLTECH POWER INTERNATIONAL PTE. LTD.  
 Add: 22 Boon Lay Way #01-64, Tradehub 21, Singapore 609968  
 Tel: +65-67957003 Fax: +65-67957013  
 Website: [www.generators.com.sg](http://www.generators.com.sg)