



Frequency : 50Hz  
 Fuel Type : Diesel

# COOL POWER GENSET

## TECHNICAL DATA



**Model**                    **CPC560E**  
 Standby power        448kW / 560 kVA  
 Prime power            400 kW / 500 kVA

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	448(560)				400(500)			
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	120	34	59	83	107

### Engine

Engine manufacturer	Cummins
Engine model	KTA19-G4
Configuration	Inline, 4-Cylinder Diesel
Aspiration	Turbocharged and after-cooled
Gross engine power output -- kWm	504
BMEP at set rated load -- kPa	1896
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	50
Overspeed limit -- rpm	N/A
Regenerative power -- kWm	45
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)	N/A

### Oil system

Oil system capacity--(L)	50
Recommended oil	API-CE OR BETTER
Oil normal temperature--(°C)	121
Oil consumption at 100%	0.31

### Air

Combustion air -- m <sup>3</sup> /min	31.92/34.74
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### Exhaust

Exhaust flow--(m <sup>3</sup> /min)	87.78/96.24
Exhaust temperature--(°C)	≤557
Allowable restriction--(kPa)	10.13

Exhaust pipe diameter--(mm)	φ 127×1
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### Standard set-mounted radiator cooling

Radiator and engine capacity--(L)	94
Fan power--(kW)	19
Fan Air flow--(m <sup>3</sup> /min)	TBD
Coolant normal temperature--(°C)	82-93
Max water temperature--(°C)	104
Type of coolant	Glycol

### Alternator

Alternator manufacturer	Stamford
Alternator model	LVI634B
Control System	PMG
Insulation class	H
Temperature Rise	H
Rated Power Factor	0.8
Winding Pitch	Two Thirds
Voltage adjust scope	≥ ±5%
Weight--(kg)	1985
A.V.R.	MX321
Protection	IP23
Stator Winding	Double layer Concentric
Winding Leads	6
Voltage regulation	≤ ±10%
Bearing number	1
Cooling Air--(m <sup>3</sup> /sec)	2.18
Voltage (v)	480/277

### Weights\*

	Open	Enclosed
Unit wet weight kgs	4800	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	3660	1310	2050

### 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.

COOLTECH POWER INTERNATIONAL PTE. LTD.  
 Add: 22, Boon Lay Way, #01-64 Tradehub 21, Singapore 609968  
 Tel: +65-6795 7003 Fax: +65-6795 7013  
 Website: [www.generators.com.sg](http://www.generators.com.sg)