



Frequency : 50Hz  
 Fuel Type : Diesel

# COOL POWER GENSET

## TECHNICAL DATA



**Model CPV700E**  
 Standby power 560kW / 700kVA  
 Prime power 504kW / 630kVA

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	560(700)				504(630)			
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	35.4	65	97	131	31	58	87	119

### Engine

Engine manufacturer	VOI VO
Engine model	TWD1643GE
Configuration	4-Cycle; In-line;6-Cylinder Diesel
Aspiration	Turbocharged
Gross engine power output -- kWm	613
BMEP at set rated load -- kPa	3000
Bore -- mm	144
Stroke -- mm	165
Rated speed -- rpm	1500
Piston speed -- m/s	8.3
Compression ratio	16.5:1
Lube oil capacity -- L	48
Overspeed limit -- rpm	1800
Regenerative power -- kWm	33
Governor type	Mechanical
Starting voltage	24 Volts DC

### Fuel flow

Recommended fuel	ASTM NO.2-D
Governor Type	Mechanical
Max fuel transfer pump suction--(m)	0.9

### Oil system

Oil system capacity--(L)	48
Recommended oil	API-CF-4 OR BETTER
Oil normal temperature--(°C)	130
Oil consumption at 100%( L/hr)	0.11

### Air

Combustion air -- m <sup>3</sup> /min	47
---------------------------------------	----

### Exhaust

Exhaust flow--(m <sup>3</sup> /min)	111.8
Exhaust temperature--(°C)	463
Allowable restriction--(kPa)	10

Exhaust pipe diameter--(mm)	159
-----------------------------	-----

### Standard set-mounted radiator cooling

Radiator and engine capacity--(L)	95
Fan power--(kW)	17
Fan Air flow--(m <sup>3</sup> /min)	600
Coolant normal temperature--(°C)	76-86
Max water temperature--(°C)	103
Type of coolant	Glycol

### Alternator

Alternator manufacturer	Stamford
Alternator model	HCI544F
Control System	Self Excited and Brushless
Insulation class	H
Temperature Rise	H
Rated Power Factor	0.8
Winding Pitch	Two Thirds
Voltage adjust scope	≥ ± 5%
Weight--(kg)	1685
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)	1.035
Voltage (v)	400/230

### Weights\*

	Open	Enclosed
Unit wet weight kgs	4600	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	3405	1400	2080

### 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: +65-67957003 Fax: +65-67957013  
 Website: [www.generators.com.sg](http://www.generators.com.sg)