



Frequency : 50Hz  
 Fuel Type : Diesel

## COOL POWER GENSET TECHNICAL DATA



**Model CPV220E**

Standby power 176kW / 220kVA

Prime power 160kW / 200kVA

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	176(220)				160(200)			
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	16	27	38	48	15	26	36	43

### Engine

Engine manufacturer	Volvo
Engine model	TAD753GE
Configuration	4-Cycle; In-line; 6-Cylinder Diesel
Aspiration	Turbo charged and Air to air cooled
Gross engine power output -- kWm	202
BMEP at set rated load -- kPa	2100
Bore -- mm	108
Stroke -- mm	130
Rated speed -- rpm	1500
Piston speed -- m/s	6.5
Compression ratio	18:1
Lube oil capacity -- L	34
Overspeed limit -- rpm	N/A
Regenerative power -- kWm	17
Governor type	Electronic
Starting voltage	24 Volts DC

### Fuel flow

Recommended fuel	ASTM-D975-No2
Governor Type	EMS2.2
Max fuel transfer pump suction--(m)	3.6

### Oil system

Oil system capacity--(L)	34
Recommended oil	API-CD OR BETTER
Oil normal temperature--(°C)	125
Oil consumption at 100%(L/H)	0.013

### Air

Combustion air -- m <sup>3</sup> /min	11.5/12
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### Exhaust

Exhaust flow--(m <sup>3</sup> /min)	31.9/33.5
Exhaust temperature--(°C)	≤505
Allowable restriction--(kPa)	7

The above information is only for reference purpose and shall constitute no restraint to us. No further notice shall be given upon any change of the information, We reserve the authority for final revision.

Exhaust pipe diameter--(mm)	Φ 108
<b>Standard set-mounted radiator cooling</b>	
Radiator and engine capacity--(L)	34
Fan power--(kW)	9
Fan Air flow--(m <sup>3</sup> /min)	198
Coolant normal temperature--(°C)	86-98
Max water temperature--(°C)	108
Type of coolant	Volvo coolant or Volvo anticorrosion additive together with clean fresh water

### Alternator

Alternator manufacturer	Stamford
Alternator model	UCI274H
Control System	Self-excited
Insulation class	H
Temperature Rise	H
Rated Power Factor	0.8
Winding Pitch	Two Thirds
Voltage adjust scope	≥ ± 5%
Weight--(kg)	626
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)	0.514

### Weights\*

	Open	Enclosed
Unit wet weight kgs	1880	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	2592	1046	1615

### 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.

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