



Frequency : 50Hz
 Fuel Type : Diesel

COOL POWER GENSET

TECHNICAL DATA



Model CPV450E

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	23	42.4	63	82	20	37.5	56	73.4

Engine

Engine manufacturer	VOI VO
Engine model	TAD1344GE
Configuration	4-Cycle; In-line;6-Cylinder Diesel
Aspiration	Turbocharged
Gross engine power output -- kWm	399
BMEP at set rated load -- kPa	2500
Bore -- mm	131
Stroke -- mm	158
Rated speed -- rpm	1500
Piston speed -- m/s	7.9
Compression ratio	18.1:1
Lube oil capacity -- L	36
Overspeed limit -- rpm	1800
Regenerative power -- kWm	15
Governor type	Mechanical
Starting voltage	24Volts 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)	36
Recommended oil	API-CF-4 OR BETTER
Oil normal temperature--(°C)	130
Oil consumption at 100%(L/hr)	0.04

Air

Combustion air -- m ³ /min	28
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Exhaust

Exhaust flow--(m ³ /min)	67.5
Exhaust temperature--(°C)	465
Allowable restriction--(kPa)	10

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

Radiator and engine capacity--(L)	44
Fan power--(kW)	10
Fan Air flow--(m ³ /min)	390
Coolant normal temperature--(°C)	82-92
Max water temperature--(°C)	107
Type of coolant	Glycol

Alternator

Alternator manufacturer	Stamford
Alternator model	HCI444F
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)	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 ³ /sec)	0.8
Voltage (v)	400/230

Weights*

	Open	Enclosed
Unit wet weight kgs	3500	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	3100	1100	1800

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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