



Frequency : 50Hz  
 Fuel Type : Diesel

# COOL POWER GENSET

## TECHNICAL DATA



**Model CPV165E**  
 Standby power 132kW / 165kVA  
 Prime power 120kW / 150kVA

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	132(165)				120(150)			
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	9.5	17	25	33.4	9.2	15.8	23	30.4

### Engine

Engine manufacturer	VOI VO
Engine model	TAD731GE
Configuration	4-Cycle; In-line;6-Cylinder Diesel
Aspiration	Turbocharged
Gross engine power output -- kWm	153
BMEP at set rated load -- kPa	1700
Bore -- mm	108
Stroke -- mm	130
Rated speed -- rpm	1500
Piston speed -- m/s	6.5
Compression ratio	18:1
Lube oil capacity -- L	20
Overspeed limit -- rpm	1800
Regenerative power -- kWm	15
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)	20
Recommended oil	API-CF-4 OR BETTER
Oil normal temperature--(°C)	110
Oil consumption at 100%( L/hr)	0.1

### Air

Combustion air -- m <sup>3</sup> /min	10.65
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### Exhaust

Exhaust flow--(m <sup>3</sup> /min)	30.2
Exhaust temperature--(°C)	540
Allowable restriction--(kPa)	5

Exhaust pipe diameter--(mm)	108
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**Standard set-mounted radiator cooling**

Radiator and engine capacity--(L)	24
Fan power--(kW)	5
Fan Air flow--(m <sup>3</sup> /min)	222
Coolant normal temperature--(°C)	83-95
Max water temperature--(°C)	105
Type of coolant	Glycol

**Alternator**

Alternator manufacturer	Stamford
Alternator model	UCI274F
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)	530
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
Voltage (v)	400/230

**Weights\***

	Open	Enclosed
Unit wet weight kgs	1775	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	2550	1000	1725

**Control Panel**

Manual Control Panel:	Auto Control Panel:	Remote control Panel:
Manual start Voltage, Current, Frequency, Battery voltage, Hour meter, Charger Alternator Voltage and Speed(R.P.M) can be displayed by means of LCD Emergency stop pushbutton	Manual and auto start The parameter of Voltage, Current, Frequency, Battery voltage, Hour meter, Charger Alternator Voltage and Speed(R.P.M) can be displayed on LCD screen Emergency stop push button	All the parameter can display 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. 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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