



Frequency : 50Hz
 Fuel Type : Diesel

COOL POWER GENSET TECHNICAL DATA



Model CPV110E

Standby power 88kW / 110kVA
 Prime power 80kW / 100kVA

| Fuel consumption | Standby | | | | Prime | | | |
|------------------|----------|------|-----|------|----------|------|------|------|
| | kW (kVA) | | | | kW (kVA) | | | |
| Ratings | 88(110) | | | | 80(100) | | | |
| 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 | 6.3 | 11.5 | 17 | 23 | 6.1 | 10.6 | 15.4 | 21 |

Engine

| | |
|----------------------------------|------------------------------------|
| Engine manufacturer | VOI VO |
| Engine model | TAD531GE |
| Configuration | 4-Cycle; In-line;4-Cylinder Diesel |
| Aspiration | Turbocharged |
| Gross engine power output -- kWm | 102.9 |
| 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 | 13 |
| Overspeed limit -- rpm | 1800 |
| Regenerative power -- kWm | 10 |
| 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) | 13 |
| Recommended oil | API-CF-4 OR BETTER |
| Oil normal temperature--(°C) | 110 |
| Oil consumption at 100%(L/hr) | 0.08 |

Air

| | |
|---------------------------------------|------|
| Combustion air -- m ³ /min | 6.09 |
|---------------------------------------|------|

Exhaust

| | |
|-------------------------------------|------|
| Exhaust flow--(m ³ /min) | 18.4 |
| Exhaust temperature--(°C) | 557 |
| Allowable restriction--(kPa) | 5 |

| | |
|--|--------|
| Exhaust pipe diameter--(mm) | 76 |
| Standard set-mounted radiator cooling | |
| Radiator and engine capacity--(L) | 20 |
| Fan power--(kW) | 5.9 |
| Fan Air flow--(m ³ /min) | 120 |
| Coolant normal temperature--(°C) | 83-95 |
| Max water temperature--(°C) | 105 |
| Type of coolant | Glycol |

Alternator

| | |
|------------------------------------|----------------------------|
| Alternator manufacturer | Stamford |
| Alternator model | UCI274C |
| 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) | 406 |
| 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) | 0.514 |
| Voltage (v) | 400/230 |

Weights*

| | | |
|---------------------|------|----------|
| | Open | Enclosed |
| Unit wet weight kgs | 1370 | 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 | 2050 | 875 | 1605 |

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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