

# LCD Pure Sine Wave Power Inverter

LIV Series 1KVA - 3KVA



## Introduction :

The LIV series employ high frequency PWM technology with Microprocessor based design that controls all diagnostics and operations to address the critical AC powering requirements of equipment applications. The front panel is designed for a simple and efficient operation with LCD display that measures and indicates all important parameters.

## Features :

- Standard 2U Rackmount Type for 1KVA – 3KVA
- **Utility Bypass Function**
- 50/60Hz Output Frequency Auto Sensing
- **DC Input Voltage: 24VDC, 48VDC, 125VDC or Tailor-made**
- Fan's Speed Controlled by Temperature & Loading
- Perfect Protection:
  - Reverse Polarity Protection by the **APC (Advanced Polarity Check)**
  - Output Short Circuit / Overload / Over Temperature Protection
  - Battery High / Low Voltage Settable for Alarm & Shutdown
  - **Ground Fault Alarm**
- Output Voltage Settable
- **1000 Event Logs**
- Dry Contact Alarm for The Control of Operation Equipment
- RS-232 Communication Port
- SNMP Communication (Option)
- Remote Control (Option)
- User-Friendly LCD and LED Displays
- Transfer Switch Built-in
- **Suitable for Inductance, Capacitance, Resistance and Non-linear Load**

## Technical Specification :

Model		LIV-10	LIV-20	LIV-30
Rating		1KVA	2KVA	3KVA
DC Input	Nominal Voltage / Max. Current	24Vdc/50A 48Vdc/25A 125Vdc/9.6A	24Vdc/100A 48Vdc/50A 125Vdc/30A	48Vdc/75A 125Vdc/33A
	Voltage Range	24Vdc(20~30Vdc) 48Vdc(40~60Vdc) 125Vdc(90~150Vdc)	24Vdc(20~30Vdc) 48Vdc(40~60Vdc) 25Vdc(90~150Vdc)	48Vdc(40~60Vdc) 125Vdc(90~150Vdc)
	Connections	Hard-wired Connection		
	Efficiency	> 85% (Full Load) at 24 or 48 or 125VDC		
	Utility Power (Bypass)	Nominal Voltage		
	Frequency	110VAC or 230VAC $\pm$ 25%		
	Protection	50 or 60 Hz $\pm$ 3Hz		
Inverter Output	Output Power	800W	1600W	2400W
	Max. Surge Power	1200W	2400W	3600W
	Voltage	110VAC or 230VAC $\pm$ 10% ※ Re-settable $\pm$ 10% of Rating Voltage via Front Panel		
	Voltage Regulation	< 2% at Linear Load		
	Frequency	50 or 60Hz $\pm$ 0.1% Auto Sensing by AC Power Source		
	Waveform	Pure Sine Wave		
	THD Distortion	< 3% at Linear Load		
	Crest Factor	3 : 1		
	Power Factor	0.8		
	Cooling System	Forced Ventilation		
Protection	Short Circuit	Inverter Shut Off, Manual Reset when the unit get back to normal		
	Overload	105% - 125% for 60 Seconds 126% - 150% for 30 Seconds > 151% for 1 second; Switch to Bypass		
	DC Polarity Reverse	Advanced Polarity Check (APC)		
	Over Temperature	Acoustic Warning before Shut-off and Auto Restart		
Indicator	LCD Display	Input / Output: Voltage / Frequency, DC: Voltage / Current, Loading: Current / Percentage, Temperature: Operation / Over, Polarity Reverse, Event Log		
	LED Display	AC Input, Inverter / Bypass, Fault / Overload, DC Input		
Communication	Interface Port	RS-232C With Baud Rate 2400, (Option: RS485, SNMP serial Port)		
	Remote Control Unit	Option		
Environment	Operating Temp.	0°C to 40°C		
	Relative Humidity	0 – 90%, non-condensing		
Mechanical	Dimension	W438*D348*H88mm (2U)		
	Net weight	10.0kgs	11.0kgs	12.0kgs

\* Long Time reserves the right to change specifications without prior notice.



Manufacture and Exporter

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