

## SINE WAVE Line Interactive UPS

### Features :-

- Microcontroller based design with DSP technology.
- PWM Sinewave Output.
- Four step AVR (110 V to 285 V AC range).
- All other features same as that of Sinewave Home UPS.

### Specifications :-

- Range Available: - 1000VA / 24V , 2000VA and 3000VA / 48V.
- AC Input:- 110 to 285 ± 10V AC .
- Output Voltage Range :- 195 to 245 V AC (Mains AVR mode).
- Output Voltage Range :- 225V AC nominal (backup mode).
- All other specs same as that of Sinewave Home UPS.



## STABILIZER

### FEATURES

- Seven Segment Display (Mains voltage, I/P, O/P, Timer counter, Lo, Hi Cut)
- 2 Minute timer for air-Conditioning Use.
- Regulated output voltage to ensure above 200V
- Digital high voltage protection to connected load
- Mains over voltage and under voltage cutoff.
- Option for displaying load current.

### PROTECTIONS

- Low Voltage cut off
- High Voltage cut off
- Delayed cut off at low voltage

### TECHNICAL SPECIFICATION

I/P Voltage	- 90 to 280 V
O/P Voltage	- >195
I/P frequency	- 50 Hz
O/P frequency	- Same as I/P
O/P waveform	- Same as I/P
Voltage Correction time	- 10 ms to 20 ms
Mains under voltage cut off	- 90 V AC
Mains over voltage cut off	- 280 V AC



## UPS PCB

### SPECIAL FEATURES

- Single chip embedded line interactive UPS engine.
- 140V to 280V mains AVR range.
- Relay changeover near zero current/zero voltage.
- Over current of MOSFETs protected within micro seconds.
- Power failure checking by simultaneous 5 methods.
- Can accept any input waves like sine wave, square wave, PWM square, generator if voltage & frequency is within limit.
- Lowest possible RMC in microcontroller UPS.
- Lowest size single sided PCB (8.5 cm \*13.0) possible.
- Zero current drain from battery after no load shutdown.



12 V  
600 VA

*We are pleased to introduce ourselves as India's Premier designer and manufacturer of high quality power conditioning equipment of International Standards for the last 13 years.*

*We have our own R & D facilities where we design our systems and a team of professional engineers back it up in manufacturing them.*

*What sets Srishti Electronics apart from competition is its capability to cater to the satisfaction of an ever increasing number of reputed customers.*

*The company mission is to focus on quality products at competitive prices assuring on time delivery and fulfilling customer requirements by securing continuous improvement in all activities.*

*We also provide assistance for implementing new technologies, improving existing product and designs, designing power conditioning and other products as per customer requirements (microprocessor based).*

## Technology For Tomorrow



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## **Inverter / Home UPS (ECo Model)**

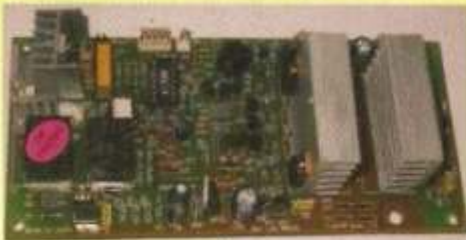
**PIC16F676 based design**

### **Features:-**

- \* Lowest possible RMC in microcontroller Home UPS.
- \* Inverter output mode protected against all fault conditions.
- \* Controlled Inverter output voltage.
- \* Automatic overload reset and short circuit protection.
- \* Battery protected against deep discharge and over charge.
- \* Triac based multistage battery charger.
- \* DC Fan connector on PCB for cooling in Inverter mode.

### **Specifications:-**

- \* Range Available :- 300VA , 600VA, 800VA / 12V system.
- \* AC Input :- 100 to 285V AC (175 to 270V Home UPS).
- \* Output Voltage Range :- 180 to 260V AC (backup mode).
- \* Output Frequency :-  $50 \pm 0.5$  Hz.
- \* Output Waveform :- PWM square wave.
- \* Display :- Four LED's Mains/Charging , Inverter, Battery Low , Overload.
- \* Battery Charger Range :- 140 to 275 V AC.
- \* Battery Charging Current :- 8 / 11  $\pm 0.5$  Amp. DC.
- \* Battery Boost Voltage :- 13.8 / 14.2 Volts  $\pm 0.1$  V.
- \* Battery Low Off :- 9.6 Volts  $\pm 0.2$  V.
- \* Overload :- Trip after 10 seconds . Four retries.
- \* Jumper Selections for :- Inv / UPS Mode , Normal / High charging , Batt. Voltage boost.



## **Inverter / Home UPS (Regular Model)**

**PIC16F72/73 based design**

### **Features:-**

- \* Based on highly reliable microcontroller.
- \* MOSFET based power stage with PWM AC output.
- \* Soft start backup mode.
- \* Backup mode protected against overload, short ckt., etc.
- \* Automatic overload reset.
- \* Over current of MOSFET's protected within micro seconds.
- \* Can accept any input waveform (sine, square , generator etc.)
- \* Automatic low battery warning and cut off.
- \* **FUZZY LOGIC** Battery charging control.
- \* Charging current variable ( 2Amp to 15 Amp.).
- \* Unique home away feature, shuts down backup mode.
- \* In built self diagnostic to check basic hardware.
- \* Error code displayed on LED's / LCD.
- \* Option for Field setting of parameters .
- \* DC Fan option on PCB.

### **Specifications :-**

- \* Range Available :- 600VA and 800VA / 12V , 1000VA and 1500VA / 24V , 2500VA / 48V.
- \* AC Input :- 100 to 285  $\pm 10$  V AC (175 to 270V in Home UPS mode).
- \* Output Voltage Range :- 200-250V AC (backup mode).
- \* Output Frequency :-  $50 \pm 0.1$  Hz.
- \* Output Waveform :- PWM square wave.
- \* Transfer Time :- @ 70m Sec. and 15-18 m Sec. in Home UPS mode.
- \* Display :- LED ( Mains, charging, charged, inv, o/l, b/l, mode) LCD (16 x 2 lines).
- \* Battery Charger Range :- 125 to 275 V AC.
- \* Battery Charging Current :- 2Amp. to 15 Amp. DC.
- \* Battery Boost Voltage :- 13.8 / 14.2 Volts  $\pm 0.1$  V.
- \* Battery Low Off :- 9.6 Volts  $\pm 0.2$  V.
- \* Overload :- Trips after 10 seconds . Four retries.
- \* Jumper Selections for :- Mode , Charging Amp / Boost Voltage.



**800VA DS- PTH PCB**

## **Sinewave Inverter / Home UPS Kit**

### **Features:-**

- \* Microcontroller based design with DSP technology.
- \* PWM Sinewave Output.
- \* SMPS based battery charger , charges battery from 110V.
- \* Selectable charging current and voltage .
- \* Complete O/L and Short ckt. protection with facility to run highly Inductive Loads.
- \* Automatic overload reset.
- \* Protection against abnormal temperature rise.
- \* Can accept any input waveform like sine wave, square wave, generator etc.
- \* Automatic low battery warning and cut off.
- \* **FUZZY LOGIC** Battery charging control.
- \* Closed loop regulated Sinewave output from no-load to full load.
- \* DC 3" Fan (12,24,48V) control on PCB.

### **Specifications :-**

- \* Range Available: - 800VA / 12V , 1400VA / 24V , 2000VA and 3000VA / 48V.
- \* AC Input:- 100 to 285 V AC (175 to 270V in Home UPS mode) .
- \* Output Voltage Range:- 225V AC nominal (backup mode).
- \* Output Frequency:-  $50 \pm 0.1$  Hz.
- \* Output Waveform:- Pure Sine Wave.
- \* Transfer Time:- @ 30m Sec. in Inverter mode. <10 m Sec. in Home UPS mode.
- \* Display:- LED ( Mains, Inverter , Charge, o/l, b/l) (Fuse blown, Hot condition).
- \* Battery Charger Range:- 115 to 275 V AC.
- \* Battery Charging Current:- 8 / 11 Amp. DC.
- \* Battery Boost Voltage:- 13.8 / 14.2 Volts  $\pm 0.1$  V.
- \* Battery Low Off:- 9.6 Volts  $\pm 0.2$  V.
- \* Overload:- Trip after 10 seconds . Four retries.
- \* Jumper Selections: - Mode, Charging Amp / Boost Voltage.

