

## Overview

This is a pure sine wave stand-alone inverter/charger system combining the function of inverter and AC charger, and provides a long run-time uninterruptible power supply. Its comprehensive 4 Line LCD display provides system status, and user-friendly operation.

## Key Feature

1. High-frequency switching technology for compact size and light weight
2. Pure sine wave output for wide range of applications and harsh environment
3. Build-in Lithium Ferro Phosphate battery for long life with out any maintenance
4. High efficient DC-to-AC conversion minimizing energy loss
5. Intelligent cooling fan control
6. Input/output isolated design for the maximum operation safety
7. LCD displays comprehensive operation status
8. Supports Home Appliances / Office Equipment/ Lighting Equipment/ Motor-based Equipment (such as Fan, Mixer grinder)
9. Thorough protections: Input low voltage / Overload / Short circuit / Low battery alarm / Input over voltage / Over temperature

## SPECIFICATIONS

Table 1 Line Mode Specifications

MODEL	LI-1250 SW
INPUT	
Input Voltage Waveform	Sine Wave - As per the Grid
Nominal Input Voltage	220AC
Low Voltage Cut Off	170Vac±7V(UPS Mode) 125Vac±7V (Inverter mode)
Low Voltage Return Voltage	175Vac±7V(UPS) 130Vac±7V (Appliances)
High Voltage Cut off	280Vac±7V
High Voltage Return Voltage	270Vac±7V
Max AC Input Voltage	290Vac
Nominal Input Frequency	50Hz
OUTPUT	
Output Short Circuit Protection	Fuse
Efficiency (Line Mode)	>98% ( Rated R load, battery full charged )
Transfer Time	10ms typical(UPS) 20ms typical(Appliances)

Table 2 Inverter Mode Specifications

<b>MODEL</b>	<b>LI-1250 SW</b>
Rated Output Power	1000W
<b>OUTPUT</b>	
Output Voltage Waveform	Pure Sine Wave (DSP)
Output Voltage Regulation	220Vac±1%
Output Frequency	50Hz
Peak Efficiency	80%
Overload Protection	5s@>150%load; 10s@110%~150% load
Capable of starting electric motor	0.5HP
Nominal DC Input Voltage	12.8 Vdc
<b>INPUT</b>	
Cold Start Voltage	12Vdc
Low DC Warning Voltage	11.5V
Low DC Cut-off Voltage	10.8V
High DC Cut-off Voltage	14.0V

Table 3 Charge Mode Specifications

<b>Utility Charging Mode</b>	
<b>MODEL</b>	<b>LI-1250 SW</b>
Charging Algorithm	3-Step
AC Charging Current (Max)	15-17Amp (@Vi/p=220Vac)
Bulk Charging Voltage	14V

Table 4 General Specifications

<b>MODEL</b>	<b>LI-1250 SW</b>
Maintenance	Zero -Maintenance
Warranty	Onsite 4 Years
Transformer Disconnection	YES after Battery Fully Charged
Battery Life	3000 Cycles
Battery Specification	C1-100AH
Dimension (D*W*H)/ mm	140*265*320
Net Weight ,kg (MPPT model)	19



# OMEGA Digital UPS

## LITHIUM INVERTER



Difference Between Lithium Battery vs Lead- Acid Batteries		
Description	Lithium Battery	Lead-Acid
 Zero-Maintenance	✓ No need of distilled water	✗ Need of distilled water Top-up once in 3 months
 Fast Charging	✓ Charging takes Upto 5 Hours to complete	✗ Charging takes Upto 12 hours to complete
 Long Life	✓ More Than 10 Years	✗ 3-5 Years Life
 Pollution Free	✓ Non Polluting	✗ Harmful to the Environment
 Portable Power	✓ 8 Kgs Battery weight	✗ Approx 40Kgs-65Kgs battery weight

### DSP PURE SINE WAVE UPS

OMEGA Digital UPS

**WITH INBUILT LITHIUM FERRO PHOSPHATE BATTERY**

**BE SMART - TOP 10 REASON TO BUY**

**ZERO**  
MAINTENANCE

**4**  
YEARS  
WARRANTY

**MORE THAN**  
**10**  
YEARS  
BATTERY LIFE

**SAFER**  
THAN  
LEAD ACID BATTERY

**SAVES**  
**1000 UNITS\*** OF  
ELECTRICITY IN 7 YEARS

**FAST**  
CHARGING  
WITHIN  
**5 HOURS**

**CONSTANT**  
**VOLTAGE**  
NO LOAD TO FULL LOAD

**PROTECTS**  
FROM LOW/HIGH VOLTAGES

**ADVANCED**  
LITHIUM TECHNOLOGY  
USED IN SPACE TO MOBILE PHONES

**SILENT OPERATION**  
PC, LAPTOP, TV, FAN, MIXE, LIGHTS AND  
ANY OTHER APPLIANCES\*



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