



600w Omega Digital UPS

**LITHIUM INVERTER**

## Overview

This is a pure sine wave-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.



## Features

- High frequency switching technology for compacy size and light weight
- Pure sine wave output for wide range of applications and harsh environment
- Built-in Lithium Ferror Phosphate battery for long life without any maintainance
- High efficient DC to AC conversion minimizing energy loss
- Intelligent cooling fan control
- Input/output isolated design for the maximum operation safety
- LCD displays comprehensive operation status
- Supports home/appliances office equipment/motor-based equipment (such as fan, mixer grinder)
- Thorough protections: Input low voltage/ overload/ short circuit/ low battery alarm/ input over voltage/ over temperature

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

## Line Mode Specification

Model	LI 850 SW
Input	600w
Input voltage waveform	Sine wave – As per the grid
Nominal input voltage	220 AC
Low voltage cut-off	170 Vac +/- 7V (UPS Mode) 125 Vac +/- 7V (Inverter Mode)
Low voltage return voltage	175 Vac +/- 7V (UPS) 130 Vac +/- 7V (Appliances)
High voltage cut-off	280 Vac +/- 7V
High voltage return voltage	270 Vac +/- 7V
Max AC input voltage	290 Vac
Nominal input frequency	50 Hz
Output	
Output short circuit protection	Fuse
Efficiency (Line mode)	>98% (Rated R load, battery full charged)
Transfer time	10ms typical (UPS) 20ms typical (Appliances)

## Inverter Mode Specification

Model	LI 850 SW
Rated output power	600w
Output	
Output voltage waveform	Pure sine wave (DSP)
Output voltage regulation	220 Vac +/- 1%
Output frequency	50 Hz
Peak efficiency	80%
Overload protection	5s@>150%load; 10s@110%~150% load
Nominal DC input voltage	12.8 Vdc
Input	
Cold start voltage	12 Vdc
Low DC warning voltage	11.5v
Low DC cut-off voltage	10.8v
High DC cut-off voltage	14.0v

## Charge Mode Specification

Cutility charging mode	
Model	LI 850 SW
Charging algorithm	3-step

## General Specification

Model	Spirit 5 KvA + SCC
Maintenance	Zero-maintenance
Transformer disconnection	Yes, after battery fully charged

## Household appliances that can be used

No	Appliances / Electronic	W	No. of units	Watt Consumption
1.	 Fans	100W	1	100 W
2.	 LED Lights	6W	2	12
		12W	2	24
		9W	1	9
3.	 LED TV (30" inch)	50W	1	50
4.	 Laptop	65W	1	65

### Consideration

- Backup time will depend on the capacity of the battery
- Recommended load should be at 75% - 100% of peak load
- Kindly check the rated power consumption before selecting the unit

### WITH INBUILT LITHIUM FERRO PHOSPHATE BATTERY

<b>ZERO</b> MAINTENANCE	<b>MORE THAN</b> <b>10</b> YEARS BATTERY LIFE	<b>SAFER</b> THAN LEAD ACID BATTERY	<b>SAVES</b> <b>1000 UNITS*</b> OF ELECTRICITY IN 7 YEARS	<b>FAST</b> CHARGING WITHIN <b>5 HOURS</b>
<b>CONSTANT</b> VOLTAGE NO LOAD TO FULL LOAD	<b>PROTECTS</b> FROM LOW/HIGH VOLTAGES	<b>ADVANCED</b> LITHIUM TECHNOLOGY USED IN SPACE TO MOBILE PHONES	<b>SILENT OPERATION</b> PC, LAPTOP, TV, FAN, MIXE, LIGHTS AND ANY OTHER APPLIANCES*	





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