



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 maintainence
- 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

ZERO
MAINTENANCE

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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