



EcoSONIC Solar hybrid Solar IPS

Model: AP-1500 | 1500W / 1484.8Wh | LiFePO4 Battery



Included Items



Product Overview

The EcoSONIC AP-1500 is a high-power 1500W / 1484.8Wh Indoor and outdoor power supply built with a high-efficiency LiFePO4 battery and a safe battery management system. With 90%–95% energy conversion efficiency and comprehensive protection circuitry, it delivers reliable, pure sine wave power for households, job sites, and off-grid living. The AP-1500 can be recharged by mains electricity or solar power, and supports a wide range of high-power appliances.

Key Features

- 1484.8Wh high-capacity LiFePO4 battery 5000+ recharge cycles
- 1500W pure sine wave inverter output safe for sensitive electronics and appliances
- Self-adaptive adapter mains charging plus high-power solar charging (up to 450W)
- 85%–90% energy conversion efficiency, reducing heat generation and maximizing usable output
- Full protection suite overcharge, over-discharge, high/low temperature, multi-stage overcurrent, and short circuit protection
- LCD function display with real-time voltage, power, battery percentage, and temperature readout

- Multiple output interfaces 3x AC 220V outlets, USB-A, USB-C, DC5521, and a 24V cigarette lighter port
- Built-in 3W LED light with on / flash / off modes
- Powers most household appliances refrigerators, air conditioners, washing machines, TVs, and more

Technical Specifications AP-1500 (1500W / 1484.8Wh)

Brand	EcoSONIC
Model	AP-1500
Product Name	Hybrid Solar IPS
Rated Output	1500W (Pure Sine Wave)
Battery Capacity	25.6V / 58Ah (1484.8Wh)
Battery Type	LiFePO4 Battery
Battery Cycle Life	5000+ Cycles
AC Output	3 x AC 220V, 1500W Total
USB-A Output	5V / 3A
USB-C Output	5V / 3A
DC Output	DC5521, 24V / 5A
Cigarette Lighter Port	24V
Built-in LED Light	3W (On / Flash / Off via LED Button)
AC Charging Input	220V
Solar Charging Input	36V, Max 450W
Protection Functions	Overcharge, Over-Discharge, High/Low Temperature, Multi-Stage Overcurrent, Short Circuit
Display	LCD Function Display Real-Time Voltage, Power, Battery %, Temperature
Product Dimensions	42 x 30.5 x 60 cm
Weight with box	21.9KG

Included Items

Solar	18V 100W Solar Panel x 2
Light	9W LED Light x 2
Charger	AC Charger x 1
Multi support USB cable	5-in-1 USB Cable x 1

Device Support Capacity (1484.8Wh Output Reference)

Approximate number of charges/runtime the AP-1500 can provide per full charge:

Load Combination	Wattage	Backup Time
1 Fan + 4 LED Lights + Router	~110W	~13 hours 40 minutes
2 Fans + 4 LED Lights + TV + Router	~230W	~6 hours 50 minutes
Small Refrigerator + Fan + Light + TV	~270W	~5 hours 30 minutes
Small Washing Machine (~350W) + Light	~380W	~3 hours 20 minutes
Water Pump (0.5HP, ~400W) + Light	~420W	~3 hours 30 minutes
Heavy Appliance – Iron / Microwave / Rice Cooker (~1000W)	~1000W	~1 hour 20 minutes
1-Ton AC + 2 LED Lights + Router	~1027W	~1 hour 12 minutes