



EcoSONIC Hybrid Solar IPS

Model: AP-3500 | 3500W / 3840Wh | LiFePO4 Battery



Product Overview

The EcoSONIC AP-3500 is a high-power 3500W / 3840Wh Indoor and outdoor power supply built with a high-efficiency LiFePO4 battery and a safe battery management system. With 85%–90% energy conversion efficiency and comprehensive protection circuitry, it delivers reliable, pure sine wave power for households, job sites, and off-grid living. The AP-3500 can be recharged by mains electricity or solar power, and supports a wide range of high-power appliances.

Key Features

- 3840Wh high-capacity LiFePO4 battery 5000+ recharge cycles
- 3500W pure sine wave inverter output safe for sensitive electronics and appliances
- 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 6x AC 220V outlets, USB-A, USB-C, and DC5521
- Powers most household appliances refrigerators, air conditioners, washing machines, TVs, and more

Technical Specifications AP-3500 (3500W / 3840Wh)

Brand	EcoSONIC
Model	AP-3500
Product Name	Hybrid Solar IPS
Rated Output	3500W (Pure Sine Wave)
Battery Capacity	25.6V / 150Ah (3840Wh)
Battery Type	LiFePO4 Battery
Battery Cycle Life	5000+ Cycles (DOD 80%)
AC Output	6 x AC 220V, 3500W 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)
Adapter Charging Input	29.2V, Max 20A
Solar Charging Input	Max 1200W
Photovoltaic	64-450V
Conversion Efficiency	85%–90%
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	51 x 32 x 76 cm
Weight with box	42KG

Device Support Capacity (3840WH Output Reference)

Approximate number of charges/runtime the AP-3500 can provide per full charge:

Load Combination	Wattage	Backup Time
1 Fan + 6 LED Lights + Router	~107W	~28 hours 43 minutes
4 Fans + 6 Lights + TV + Router	~377W	~8 hours 9 minutes
Refrigerator + 4 Fans + 4 Lights + TV + Router	~467W	~6 hours 35 minutes
1-Ton AC + 4 Fans + 4 Lights + TV + Router	~1367W	~2 hours 15 minutes
1-Ton AC + Refrigerator + 5 Fans + 6 Lights + TV	~1540W	~2 hours
2x 1-Ton AC + 4 Fans + 4 Lights + TV + Router	~2367W	~1 hour 30 minutes