



**AADHIRAG  
ENERGY**

*Backup You Can Trust*



# ASTRA PLUS

**1k - 1 kVA Inverter with 1.2 kWh Battery pack**

**LiFePO4 Battery | Lifetime No Maintenance | 7 Year Warranty**



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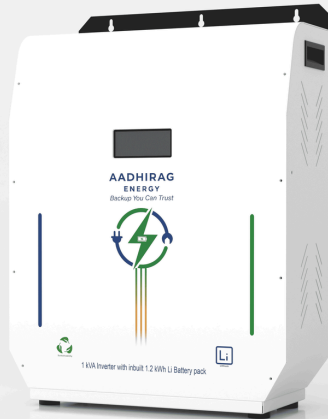


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## Astra lite 1-1.2 kWh Battery Pack



LiFePO<sub>4</sub> Battery | Lifetime No Maintenance | 7 Year Warranty

### The Modern Replacement for Traditional Inverter Batteries

kVA Inverter + Inbuilt 1.2 kWh Lithium Battery (Wall-Mounted Design)

The all-in-one replacement for your old inverter + battery setup

### Smarter, Sleeker, Stronger

Say goodbye to bulky inverter units and acid-filled batteries.

The Aadhirag 1 kVA Smart Power Pack combines a pure-sine inverter and a high-performance 1.2 kWh LiFePO<sub>4</sub> battery into one compact, wall-mounted system. It's designed to deliver silent, maintenance-free, long-life backup power for homes, offices, and shops.

## Key Highlights

- **All-in-One Compact Design**

Inverter + Battery + BMS in a single sleek wall-mounted enclosure — saves floor space and wiring clutter.

- **Direct Replacement for Traditional Systems**

No external battery or wiring modifications required. Replace your inverter + lead-acid combo instantly.

- **Fast Charging & Long Backup**

Fully charges in just 2–3 hours and provides **up to 3× longer backup** than comparable lead-acid setups.

- **Intelligent Battery Management (IBM System)**

Built-in BMS ensures smart cell balancing, temperature protection, and extended battery life.

- **Silent & Maintenance-Free**

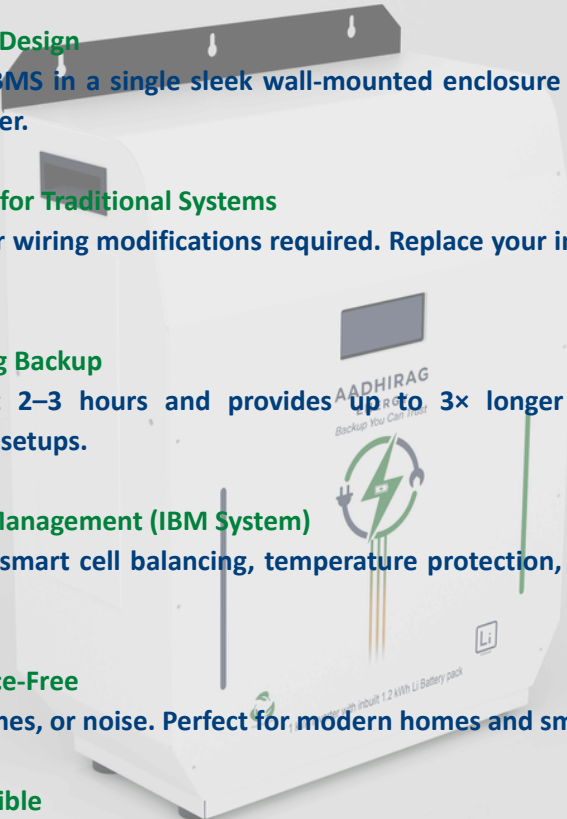
No distilled water, fumes, or noise. Perfect for modern homes and small offices.

- **Solar + Grid Compatible**

Works with grid power or rooftop solar charging.

- **Safe & Certified**

Advanced LiFePO<sub>4</sub> chemistry; no fire, smoke, or explosion risk.



## Technical Specifications

<u>Parameter</u>	<u>Specification</u>
Model	AE-SP 1 kVA-1.2 kWh
Inverter Capacity	1 kVA / 800 W
Battery Capacity	12.8 V 100 Ah (1.28 kWh)
Battery Chemistry	LiFePO <sub>4</sub> (Lithium Iron Phosphate)
Input Voltage	230 V $\pm$ 10 % AC / Solar DC
Output Voltage	230 V AC Pure Sine Wave
Efficiency	$\geq$ 94 %
Charge Time	2 – 3 hours
Cycle Life	> 3,500 cycles @ 80 % DoD
Operating Temp.	0 °C – 50 °C
Mounting	Wall Mount
Weight	~ 18 – 20 kg
Warranty	5 Years

## Comparison:

### Traditional Inverter + Battery vs Aadhirag Smart Power Pack

<u>Feature</u>	<u>Conventional Setup (Inverter + Lead-Acid)</u>	<u>Aadhirag 1 kVA Smart Power Pack</u>
System Type	Separate inverter + battery	All-in-one wall-mounted unit
Charging Time	8 – 10 hrs	2 – 3 hrs
Efficiency	~ 75 %	> 94 %
Backup Life	1–2 yrs degradation	3× longer backup
Maintenance	Frequent water top-up	Zero maintenance
Safety	Acid fumes / corrosion	Fire-safe LiFePO <sub>4</sub>
Noise	Audible fan / relay	Silent operation
Installation	Bulky floor setup	Elegant wall mount
Warranty	1 – 2 years	4 years

## Ideal For

- Homes & Apartments
- Clinics & Small Offices
- Retail Shops & ATMs
- Security Systems & Small Servers
- Solar-Hybrid Backup Installations

## Why Choose Aadhirag Lithium?

- Compact Wall-Mount Design
- Silent Operation & Zero Maintenance
- Fast Charging & High Efficiency
- Solar + Grid Ready
- 5-Year Warranty & Long Life





# **AADHIRAG ENERGY**

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## Thank You for Choosing Aadhirag Energy

We appreciate your trust in our products. At Aadhirag Energy, we're committed to delivering innovative and dependable power solutions that ensure life never stops. Together, let's build a future powered by reliability and progress.

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