



**AADHIRAG
ENERGY**

Backup You Can Trust



ASTRA LITE

1-1.2 kWh Battery Pack

LiFePO4 Battery | Lifetime No Maintenance | 7 Year Warranty



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The Modern Replacement for Traditional Inverter Batteries

Reimagine Power. Replace Lead-Acid.

Say goodbye to heavy, maintenance-prone lead-acid batteries. The Aadhirag 1.2 kW lithium pack delivers superior performance, faster charging, and longer life, in a compact, eco-friendly form—engineered to replace your existing 12 V 150 Ah or 12 V 200 Ah inverter battery seamlessly.

Key Highlights

- **Plug-and-Play Replacement:**

Designed for direct compatibility with popular inverter brands—just replace your old battery, no rewiring required.

- **Lightweight & Compact:**

Up to 60% lighter than lead-acid, saving space while enhancing portability and wall-mount options.

- **Faster Charging. Longer Backup:**

Charges fully within 2–3 hours, providing up to 3 × longer backup with consistent output power.

- **Smart Battery Management (IBM System):**

Advanced Intelligent Battery Maintenance (IBM) ensures cell balancing, protection, and longer cycle life.

- **Zero Maintenance:**

No distilled water, no corrosion, and no downtime—truly fit-and-forget performance.

- **Safe & Reliable:**

Certified for the highest international safety standards, with no fire, smoke, or explosion risks.

- **Wide Compatibility:**

Works with solar and grid charging; supports hybrid inverter systems and DC applications.

- **Completely Hassle-Free:** No need for distilled water or routine maintenance.

- **Safe for Every Home:** Child-friendly design with no exposed wires or harmful materials.

- **Flexible Installation:** Can be mounted on the wall or placed on the floor.

- **Ultra-Low Self-Discharge:** Retains power significantly longer than conventional rechargeable batteries.

Technical Specifications

<u>Parameter</u>	<u>Specification</u>
Model	AE-LFP-1.2 kW
Nominal Voltage	12.8 V (Compatible with 12 V Systems)
Rated Capacity	100 Ah
Energy	1.28 kWh
Battery Chemistry	LiFePO ₄ (Lithium Iron Phosphate)
Cycle Life	> 5,000 cycles @ 80% DoD
Operating Temperature	0 °C – 50 °C
Charge Time	2–3 hours (Fast Charge Compatible)
Communication Interface	CAN / RS-485
Protection	Overcharge, Over-discharge, Short Circuit, Temperature Protection
Mounting Options	Wall / Floor Mount
Weight	~ 12–14 kg
Warranty	7 Years (Standard)

Ideal For

- Home Inverters
- Small Offices & Shops
- ATMs, Clinics & Labs
- Solar-Hybrid Backup Systems

Why Choose Aadhirag Lithium?

- Maintenance-Free Operation
- 3× Longer Lifespan than Lead-Acid
- Quick Charge & High Efficiency
- Compact, Elegant Design
- Safe for Children & Indoors
- Green, Recyclable, and Sustainable

Imagine no more battery anxiety – no wondering if your battery will die overnight, no scrambling to refill distilled water, and no dreaded lifting of a 50 kg battery ever again. Whether you need reliable home backup power or plan to explore off-grid, this lithium pack has you covered.

Make the smart choice today. Ditch the heavy, outdated lead-acid and embrace the future of energy storage. If you're ready for a cleaner, lighter, and more **powerful** battery solution, **get in touch with us** now for more information or to place your order. Empower your home and adventures with a battery that truly **works for you** – it's time to **switch to lithium and experience the difference!**

Replace. Recharge. Relax.

<u>Feature</u>	<u>Lead-Acid Battery (12 V 150/200 Ah)</u>	<u>Aadhirag 1.2 kW LiFePO₄</u>
Energy Efficiency	70 – 75 %	95 % +
Cycle Life	300 – 400 cycles	> 3,500 cycles
Charging Time	8 – 10 hours	2 – 3 hours
Maintenance	Requires water top-up	Zero maintenance
Weight	45 – 60 kg	12 – 14 kg
Backup Duration	Reduces over time	Constant throughout life
Safety	Acid & fume hazard	No acid, no fumes, fire-safe
Installation	Floor mount only	Wall or floor mount
Environmental Impact	Toxic / non-recyclable	Green / fully recyclable
Warranty	3 – 4 years	7 years



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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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