



**AADHIRAG**  
ENERGY

Backup You Can Trust



# ASTRA MAX

## 5 - 5.1 kWh Battery Pack

LiFepo4 Battery | Lifetime No Maintenance | 7 Year Warranty



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### Advanced Power Storage for Homes, Businesses & Solar Systems

#### Power That Grows with You

Meet the next-generation energy storage system from Aadhirag Energy — engineered for flexibility, scalability, and reliability.

The **5.1 kWh LiFePO<sub>4</sub> Battery Pack** is purpose-built for modern hybrid inverter systems like Studer, Deye, Growatt, Phocos, SMA and more, delivering **seamless solar integration** and **long-life performance** in both **wall-mounted and rack-mounted configurations**.

## Key Highlights

- **Universal Hybrid Compatibility**

Fully compatible with major inverter brands including Studer, Deye, Growatt, Phocos, and other RS-485 / CAN-enabled hybrid systems.

- **Scalable Energy –**

Connect up to 16 batteries in parallel for expandable storage — perfect for growing home or C&I applications.

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- **Flexible Mounting Options**

Available in wall-mount and stackable rack-mount designs for compact installation in homes, offices, and solar power rooms.

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

Advanced multi-level protection for voltage, current, temperature, and communication, ensuring maximum performance and safety.

- **High Energy Density, Low Footprint**

Space-saving, lightweight enclosure designed for modern interiors and tight utility rooms.

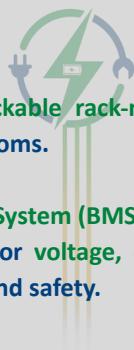


- **Fast Charge / Discharge Capability**

Supports high current operation for heavy loads and quick charging from grid or solar input.

- **Silent & Maintenance-Free**

No noise, no fumes, and no maintenance — reliable backup every day, year after year.



## Technical Specifications

Parameter	Specification
Model	AE-LFP 5.1 kWh
Nominal Voltage	51.2 V
Rated Capacity	100 Ah
Usable Energy	5.12 kWh
Battery Chemistry	LiFePO <sub>4</sub> (Lithium Iron Phosphate)
Cycle Life	> 6,000 cycles @ 80 % DoD
Operating Voltage Range	44.8 – 57.6 V
Communication Interface	CAN / RS-485
Parallel Scalability	Up to 16 units
Charge / Discharge Current	Up to 100 A
Charging Time	2 – 3 hours (Fast Charge Compatible)
Operating Temperature	0 °C – 50 °C
Mounting Options	Wall / Rack Mount
Weight	~ 45 – 50 kg
Warranty	5 Years

## Comparison:

### Traditional Battery Bank vs AadhiraG 5.1 kWh Lithium Pack

<u>Feature</u>	<u>Traditional Lead-Acid / Tubular</u>	<u>AadhiraG 5.1 kWh LiFePO<sub>4</sub></u>
<b>Energy Density</b>	Low	3x Higher
<b>Cycle Life</b>	400 – 600	> 6,000
<b>Maintenance</b>	Frequent top-up	Zero Maintenance
<b>Scalability</b>	Limited	Parallel up to 16 units
<b>Efficiency</b>	~ 75 %	> 95 %
<b>Charging Time</b>	8 – 10 hours	2 – 3 hours
<b>Safety</b>	Acid / Gas / Corrosion	Safe LiFePO <sub>4</sub> Chemistry
<b>Mounting</b>	Floor Only	Wall / Rack Mount
<b>Warranty</b>	1 – 2 years	5 years

## Ideal For

- Hybrid Solar and On-Grid Backup Systems
- Villas & Apartment Complexes
- Small Commercial Buildings & IT Rooms
- Telecom, Server, & Cold Storage Backups
- Schools, Hospitals, and Institutions

## Why Choose Aadirag Lithium?

- Works with Leading Hybrid Inverters
- Expandable Energy — Up to 81.6 kWh
- Wall & Rack Mount Options
- Long Cycle Life & High Safety
- Maintenance-Free Operation



## AADHIRAG ENERGY

*Backup You Can Trust*

### 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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