



NKB TECHNOCRATS PVT. LTD.

YOUR TRUSTED TECHNOLOGY PARTNER

Lithium Battery

Ferro Phosphate



Powering The Future with Advanced Energy Solutions

At NKB Technocrats Pvt Ltd, we specialize in manufacturing high-performance Grade A Prismatic Lithium Ferro Phosphate (LFP) Batteries, designed to deliver superior reliability, efficiency, and safety. Our batteries are engineered to meet the demands of modern energy storage applications, ensuring long-lasting and eco-friendly power solutions.

1 Superior Safety & Stability

- Built with high-quality prismatic LiFePO_4 cells, our batteries provide exceptional thermal and chemical stability.
- Unlike conventional lithium-ion batteries, LFP chemistry is inherently resistant to overheating, reducing the risk of fire or explosion.

2 Long Cycle Life & Durability

- With a lifespan exceeding 5,000+ charge-discharge cycles, our batteries last significantly longer than lead-acid and standard lithium-ion alternatives.
- Designed for 10-15 years of continuous operation, minimizing replacement costs and downtime.

3 High Energy Efficiency & Performance

- Offers fast charging capabilities, enabling quicker power replenishment.
- Deep discharge capability (up to 90% Depth of Discharge - DoD) without compromising battery health.

4 Eco-Friendly & Sustainable

- Contains no harmful heavy metals (such as lead, cadmium, or cobalt), making them safe for the environment.
- 100% recyclable, reducing carbon footprint and promoting green energy solutions.

5 Lightweight & Compact Design

- Higher energy density allows for a compact and lightweight battery design compared to traditional alternatives.
- Ideal for portable and space-constrained applications.

6 Wide Operating Temperature Range

- Performs reliably in extreme temperatures ranging from -20°C to 60°C , making them suitable for diverse climates and applications.

Product Specifications & Available Models

Model	Capacity (AH)	Voltage (V)	Nominal Energy (Wh)	Cycle Life
NKB-LFP-100-12.8	100 AH	12.8 V	1280 Wh	5000+
NKB-LFP-100-25.6	100 AH	25.6 V	2560 Wh	5000+
NKB-LFP-100-48	100 AH	48 V	4800 Wh	5000+
NKB-LFP-200-12.8	200 AH	12.8 V	2560 Wh	5000+
NKB-LFP-200-25.6	200 AH	25.6 V	5120 Wh	5000+
NKB-LFP-200-48	200 AH	48 V	9600 Wh	5000+

Note : We also provide customized battery solutions to meet specific energy storage requirements.

Applications of Our LFP Batteries

Our prismatic LFP batteries are ideal for various industrial and commercial applications, including:

1 Renewable Energy Storage

- Perfect for solar energy systems, enabling efficient power storage for residential, commercial, and off-grid applications.

2 Electric Vehicles (EVs) & E-Mobility

- Used in electric cars, e-bikes, e-rickshaws, and hybrid vehicles, offering long-lasting and reliable power.

3 Telecom & Data Centers

- Provides uninterrupted backup power for telecom towers, data centers, and IT infrastructure.

4 Industrial & Commercial UPS Systems

- Ensures smooth operation of factories, hospitals, offices, and mission-critical equipment during power failures.

5 Marine & RV Power Solutions

- Powers boats, yachts, and recreational vehicles (RVs), offering lightweight, high-capacity energy storage.

6 Medical & Laboratory Equipment

- Delivers stable power for medical devices, laboratory instruments, and emergency response equipment.

Why Partner with NKB Technocrats Pvt Ltd?

1 Industry-Leading Manufacturing Excellence

- State-of-the-art production facilities with automated quality control.
- Strict adherence to international standards (ISO, BIS, IEC, UL, etc.).

2 Cutting-Edge R&D & Innovation

- Continuous investment in battery technology advancements.
- In-house R&D team working on efficiency improvements & next-gen energy solutions.

3 High-Quality, Grade A Prismatic LFP Cells

- We use only Grade A cells, ensuring superior safety, reliability, and long lifespan.
- No compromise on quality – zero recycled or low-grade cells used.

4 Customizable Battery Solutions

- Tailor-made battery packs based on specific voltage, capacity, and size requirements.
- Flexible configurations for EVs, solar storage, telecom, industrial, and backup power.

5 Fast Charging & High Energy Density

- Our LFP batteries support rapid charging without overheating or capacity degradation.
- Higher energy output in a compact and lightweight design.

6 Reliable Supply Chain & Large Production Capacity

- Consistent bulk supply availability for OEMs, industries, and commercial buyers.
- Strong logistics support for on-time delivery across India & globally.

7 Comprehensive Warranty & After-Sales Support

- Long-term warranty coverage, ensuring product durability and customer confidence.
- Dedicated technical support team for troubleshooting and maintenance guidance.

8 Sustainable & Eco-Friendly Manufacturing

- 100% recyclable battery materials, reducing environmental impact.
- No use of toxic heavy metals like lead, cadmium, or cobalt.

9 Competitive Pricing & High ROI

- Affordable pricing with premium quality components.
- Low maintenance costs, resulting in higher return on investment (ROI).

10 Proven Track Record & Trusted by Industries

- Supplying leading businesses, EV manufacturers, solar integrators, and telecom providers.

Power Up with NKB LFP Batteries – Reliable, Sustainable, and Built for the Future!

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