



نور الفكر للأعمال

NOOR AL FIKR

Your Trusted Partner in Business Growth.

www.nooralfikr.co



NOOR AL FIKR
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Advanced Energy Storage & International Partnership Solutions



Your Trusted Partner in Business Growth

NOOR AL FIKR delivers comprehensive Information Technology solutions and cutting-edge hardware tailored for dynamic business landscapes.



Industrial Power: A massive selection of long-lasting, fast-charging energy storage solutions.



Integrated Tech: Seamlessly blending hardware, software, and real-time monitoring.



Sustainable Future: Dedicated to engineering solutions that actively reduce global reliance on fossil fuels.

The Superior Lead-Acid Replacement

12.8V to 48V | 6Ah to 400Ah

Lifespan	~1,000 cycles		 Up to 6,000 cycles (6x longer)
Footprint	Standard space requirements		 Up to 15% smaller and energy-dense
Weight	Heavy and cumbersome		 Significantly lighter
Maintenance	Routine physical checks		 Zero-maintenance advanced BMS



Higher
Performance



Smaller &
Lighter



More Safe



Modular
Expansion



More
Cost-effective



Flexible Function
Add On

NOOR AL FIKR
نور الفكر للاستشارات

Lithium Battery Packs

Rechargeable Batteries

(Button, Li-ion, Li-po, LiFePO₄, Ni-Mh, Ni-Cd)



Primary Batteries

(CR, ER, BR, 1.5V Li-FES₂, Micro Thin)

Dry Batteries

(Silver Oxide, Alkaline, Zinc Air)



The Application Spectrum

One chemistry. Infinite deployment possibilities.

Micro &
Precision



Commercial &
Security



Macro &
Mobility



From everyday consumer electronics to mission-critical medical and security infrastructure, our high-density packs deliver exact power requirements at any scale.



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Core Capability: Off-Grid & Portable Power Stations

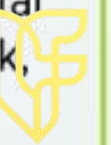
Professional. Secure. Convenient.

Power Output: 150W – 15,000W

Storage Capacity: 150Wh – 15,000Wh

Inverter Efficiency: ~95%

The first full range of applications for LiFePO₄ in a portable format. Foldable solar panel design for total light-to-electricity independence. Built for tool work, home energy storage, and emergency necessity.



A. Single Cell Selection — Cylindrical & Prismatic LiFePO4

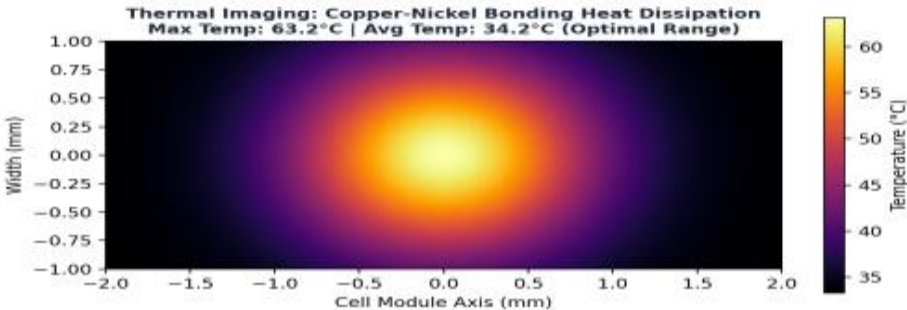
We select top-grade A LiFePO4 cells offering exceptional thermal stability, zero flame risk, and extended cycle life (>3000 cycles at 100% DOD, up to 6000 cycles at 80% DOD).



Model	Type	Nominal Volts	Rated Cap.	Int. Resistance	Discharge Rate	Dimensions (mm)	Weight
IFR18650PC	Cylindrical	3.2 V	1,500 mAh	≤ 20 mΩ	2C	18.2 × 65.0	42 g
IFR20650PC	Cylindrical	3.2 V	2,500 mAh	≤ 15 mΩ	2C	20.2 × 65.0	58 g
IFR26700PC	Cylindrical	3.2 V	4,000 mAh	≤ 12 mΩ	2C	26.2 × 70.0	95 g
IFR40135	Cylindrical	3.2 V	20.0 Ah	≤ 6 mΩ	2C	40.5 × 135.5	356 g
IFP23140160	Prismatic	3.2 V	50.0 Ah	≤ 1 mΩ	1C	23.2 × 140.0 × 163.0	1,300 g
IFP31136227	Prismatic	3.2 V	75.0 Ah	≤ 1 mΩ	1C	31.2 × 135.0 × 230.5	1,750 g

B. Thermal Management & Copper-Nickel Bonding Technology

NOOR AL FIKR utilizes proprietary copper-nickel sheet bonding technology to decrease contact resistance between cells and external circuitry. This significantly mitigates heat accumulation, keeping pack temperatures strictly within optimal limits.



3. AUTOMATED PRODUCTION & RELIABILITY TESTING

A. Production Lines & Workshop Capabilities

Our factory operates 4 automated laser welding stations, 2 semi-automatic lines for small batteries, 1 semi-automatic line for large-scale energy storage packs, and a 300-channel automated charge/discharge test center. **Assembly Capacity: Over 1,000 battery packs per day (12.8V 100Ah standard).**

Item	Production Line	QTY (Set)	Typical Battery Model	Daily Capacity	Monthly Capacity
1	Laser Welding Working Station	4	5.12kWh 51.2V 100Ah Module	500 ~ 600 pcs	15,000 ~ 18,000 pcs
2	Semi-Auto Line (Small Packs)	2	12.8V 100Ah LFP Battery	500 ~ 800 pcs	10,000 ~ 20,000 pcs
3	Semi-Auto Line (Large ESS)	1	15.36kWh 51.2V 300Ah HESS	150 ~ 200 pcs	4,000 ~ 6,000 pcs
4	Charge & Discharge Testing	300 Ch.	All Pack Formats (12V-800V)	1,000 ~ 1,500 pcs	30,000 ~ 45,000 pcs

B. Comprehensive Safety & Electronics Testing Laboratory

Every NOOR AL FIKR battery model undergoes rigorous mechanical, electrical, and environmental reliability testing before mass delivery:

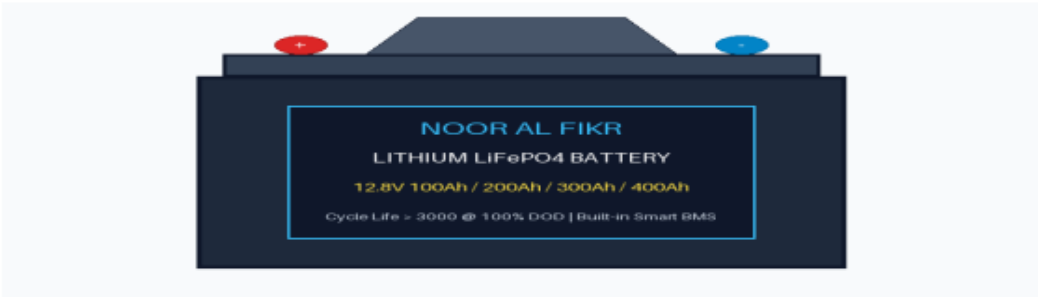
- **Safety Tests:** Nail penetration (acupuncture) test, heavy impact/crush, short circuit, overcharge, and thermal shock.
- **Electronics & BMS Verification:** Precision Chroma DC electronic load testing, active balance validation, and fault simulation.
- **Reliability & Environmental:** High/low temperature humidity chambers (-40°C to +85°C), salt spray corrosion, and vibration testing.

Certified Compliance Documentation:

Full test reports available upon request: CE EMC Directive 2014/30/EU, IEC 62619 Safety Standard, UN38.3 Dangerous Goods Transport Identification, MSDS Safety Data Sheet, and RoHS Directive 2011/65/EU.

4. PRODUCT LINEUP: LEAD-ACID REPLACEMENT BATTERIES

Direct drop-in LiFePO4 replacement for traditional SLA/AGM lead-acid batteries. Features lighter weight (1/3 of lead-acid), 10x longer cycle life, integrated Smart BMS protection, and maintenance-free operation.



A. 12.8V LiFePO4 Replacement Series Specifications

Model	Voltage	Capacity	Energy	Max Charge	Max Discharge	Dimensions (LxWxH mm)	Weight
1208	12.8 V	8 Ah	102.4 Wh	8 A	8 A	151 × 65 × 94	1.0 kg
1220	12.8 V	20 Ah	256 Wh	20 A	20 A	180.5 × 76 × 170	2.5 kg
1250	12.8 V	50 Ah	640 Wh	50 A	50 A	198 × 166 × 170	6.3 kg
12100	12.8 V	100 Ah	1,280 Wh	100 A	100 A	329 × 172 × 214	10.8 kg
12200	12.8 V	200 Ah	2,560 Wh	200 A	200 A	522 × 240 × 218	22.0 kg
12300	12.8 V	300 Ah	3,840 Wh	200 A	200 A	520 × 269 × 220	32.0 kg
12400	12.8 V	400 Ah	5,120 Wh	250 A	250 A	520 × 269 × 220	38.0 kg

B. 25.6V & 38.4V LiFePO4 Replacement Series Specifications

Model	Nominal Voltage	Capacity	Energy	Max Charge	Max Discharge	Dimensions (LxWxH mm)	Weight
24100	25.6 V	100 Ah	2,560 Wh	100 A	100 A	522 × 240 × 218	22.0 kg
24150	25.6 V	150 Ah	3,840 Wh	100 A	100 A	520 × 269 × 220	32.0 kg
24200	25.6 V	200 Ah	5,120 Wh	100 A	150 A	520 × 269 × 220	42.0 kg
3650	38.4 V	50 Ah	1,920 Wh	50 A	100 A	522 × 240 × 218	16.0 kg
36100	38.4 V	100 Ah	3,840 Wh	50 A	150 A	520 × 269 × 220	32.0 kg

5. TELECOM & HOME ENERGY STORAGE SYSTEMS (HESS)

A. 48V / 51.2V 19-Inch Server Rack Telecom Batteries



Model	Voltage	Capacity	Energy	Charge Current	Discharge Current	Dimensions (LxWxH mm)	Weight
4850	48 V	50 Ah	2,400 Wh	50 A	50 A	450 × 442 × 133 (3U)	25.0 kg
48100	48 V	100 Ah	4,800 Wh	100 A	100 A	450 × 442 × 178 (4U)	45.0 kg
48150	48 V	150 Ah	7,200 Wh	100 A	100 A	450 × 442 × 245 (5U)	65.0 kg
48200	48 V	200 Ah	9,600 Wh	100 A	100 A	550 × 442 × 245 (5U)	80.0 kg

B. Wall-Mounted Smart Home Energy Storage Systems (HESS)



Parameter	HL512100A (5kWh Wall)	HL512300A (15kWh Wall)
Nominal Capacity	51.2V 100Ah (5,120 Wh)	51.2V 300Ah (15,360 Wh)
Battery Cell Grade	Grade A LiFePO4 Prismatic	Grade A LiFePO4 Prismatic
BMS & Communication	Smart BMS (RS485, CAN, Bluetooth, WiFi)	Smart BMS (RS485, CAN, Bluetooth, WiFi)
Display & Interface	4.3 Inch LCD Touch Screen	4.3 Inch LCD Touch Screen
Cycle Life / Warranty	6,000+ Cycles @ 80% DOD / 6 Years Warranty	6,000+ Cycles @ 80% DOD / 6 Years Warranty
Inverter Compatibility	Growatt, Deye, Solis, Victron, GoodWe, Sofar	Growatt, Deye, Solis, Victron, GoodWe, Sofar
IP Rating & Weight	IP54 Waterproof / 49 kg (Gross 54.5kg)	IP54 Waterproof / 128 kg

Core Capability: Precision Voltage Stabilisation

Unwavering power quality for modern devices.



Industrial Range

30 Amps (7000VA) / 30A_7VA

Commercial Range

10 Amps (3000 Watts) / 3KW-10A

Features

Fully Automatic, Self-Switching,
Digital Time & Voltage Control.
Long-life build quality with
uncompromising performance.



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