spinoff technopark

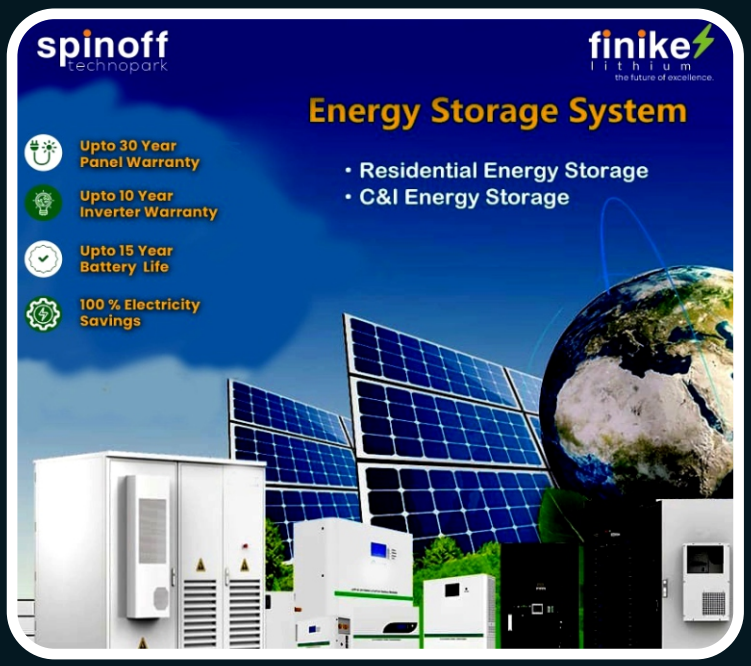
www.spinoff.in

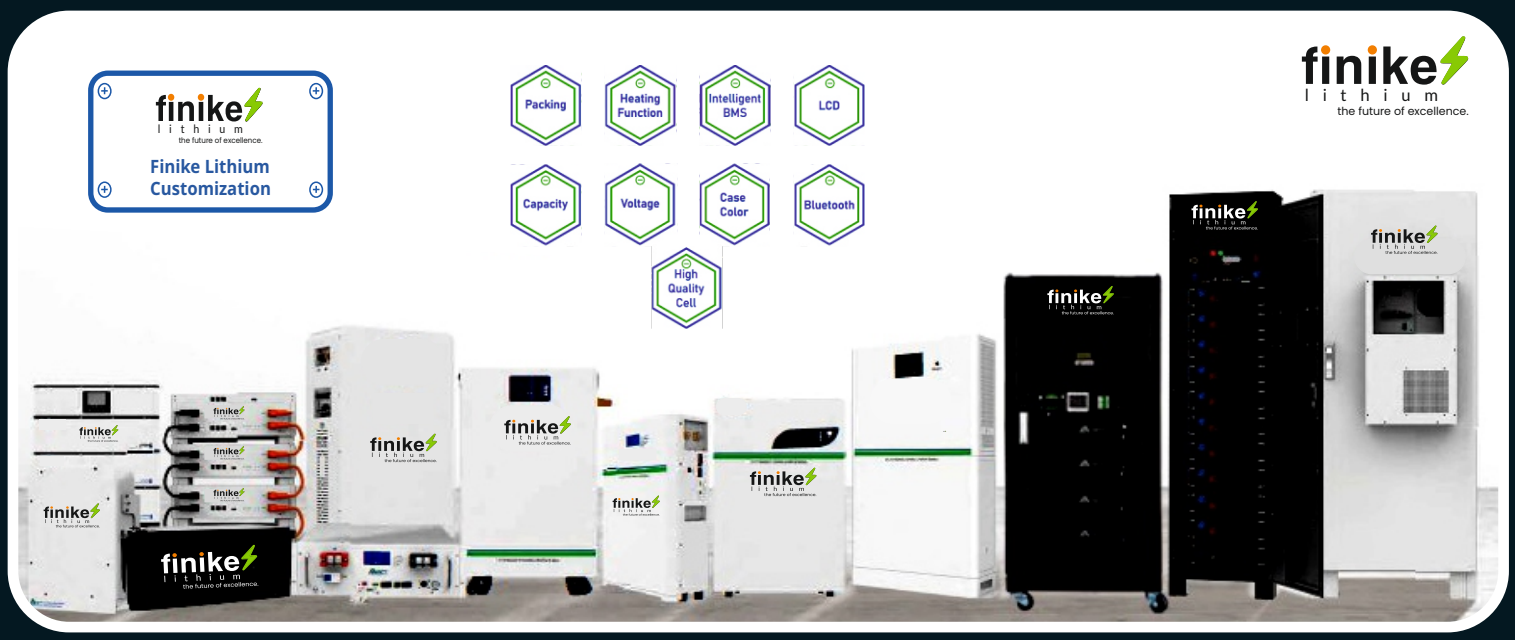
+91 97780-44000

finike lithium
the future of excellence.

www.finikelithium.com




finike lithium
the future of excellence.

# Lithium Battery Catalogue

# FINIKE LITHIUM

# Our Story

Finike lithium was founded with a mission to provide reliable, sustainable, and high-performance lithium battery solutions. Since our inception in 2023, we have been committed to transforming the electric vehicle and energy sectors by offering advanced energy storage solutions. Our batteries power everything from electric vehicles to solar systems, paving the way for a cleaner, greener future.

# Our Mission

Our mission is to drive the adoption of clean energy by providing the most efficient and eco-friendly lithium battery solutions for various applications, including electric vehicles and renewable energy storage systems.

We are committed to making clean energy accessible and affordable for everyone,empowering individuals and businesses to reduce their carbon footprint and adopt more environmentally responsible practices. Our high-performance lithium batteries are designed to meet the ever-growing demand for efficient and sustainable power storage solutions in the electric mobility, renewable energy, and industrial sectors.




## Why Choose Us?

### High Efficiency

Our lithium batteries offer superior efficiency, providing longer-lasting power for electric vehicles and energy storage solutions.

### Fast Charging

Enjoy rapid charging speeds with our advanced technology, ensuring you spend less time waiting and more time on the road or using energy.

### Eco-Friendly

We are committed to sustainability by reducing environmental impact through the use of recyclable materials and clean energy solutions

## Our Products

We Provide A Range Of High-performance Lithium Battery Solutions Designed To Meet The Needs Of The Electric Vehicle And Energy Sectors. Explore Our Top Products Below.




### Electric Vehicle Batteries

Power your electric vehicle with our high-capacity and efficient lithium batteries.



### Solar Storage Batteries

Maximize energy storage for your solar systems with our durable and reliable batteries.



### Energy Storage Systems

Store energy efficiently for residential and commercial applications with our advanced energy storage systems.

# Home Inverter/UPS Lithium Battery Segment




| 12.8V-100AH-1280WH-LiFePo4 Battery | | |
|---|---|---|
| Electric | Battery Type | Lithium Iron Phosphate (LiFePO4) |
| | Nominal Voltage | 12.8V |
| | Type Of Cells | PRISMATIC |
| | Nominal Capacity | 100 AH |
| | Stored Energy | 1280 WH |
| | Cycles | 3000 Cycles |
| | MCB Switch | ✓ |
| | Energy Efficiency | 98% |
| Electrical Characteristics | Charge Voltage | 14.4 V ± 0.2V |
| | Charge Mode | CC/CV: Constant Current/Constant Voltage |
| | Standard Charge Current | 50A |
| Standard Discharge | Standard Discharge Current | 100A |
| | Peak Discharge Current | 200A (2C) only for a few seconds) |
| SMART BMS FUNCTION | Circuit Protection | Over Charge & Over Discharge & Over Current & Over Temp & Short Circuit. |
| | | Battery balancing management |
| | Communication Interface | CAN, RS485, or Bluetooth (optional) |
| | Cell Balancing | Passive Balancing for Extended Battery Life |
| | Temperature Monitoring | Inbuilt Sensors for Safe Operation |
| | Remote Monitoring | Remote Monitoring: Mobile App/Web Interface (Optional) |
| Environment | Charge Temperature Range | 0°C to +60°C |
| | Discharge Temperature Range | 0°C to +60°C |
| | Storage Temperature | 0°C o +50°C @60±25% relative humidity |
| | IP Protection Level | IP 65 |
| Mechanical | Casing Material | METAL |
| | Dimensions L*B*H (mm) | 200x163x425 mm |
| | Weight | 14.500 KG |
| | Terminal | ISOLATED |







## Customized Battery Packs Available As Per Requirement

Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

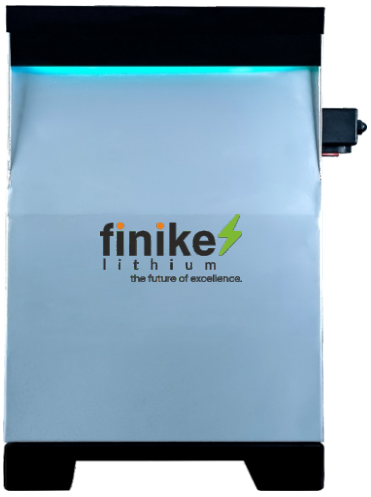
Finike Lithium A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark
www.spinoff.in
+91 97780-44000
finike lithium the future of excellence.
www.finikelithium.com

# Home Inverter/UPS Lithium Battery Segment




| 24V-100AH-2400WH-LiFePo4 Battery | | |
|---|---|---|
| Electric | Battery Type | Lithium Iron Phosphate (LiFePO4) |
| | Nominal Voltage | 25.6V |
| | Type Of Cells | PRISMATIC |
| | Nominal Capacity | 100AH |
| | Stored Energy | 2560WH |
| | Cycles | 3000 Cycles |
| | MCB Switch | ✓ |
| | Energy Efficiency | 98% |
| Electrical Characteristics | Charge Voltage | 28.8 V ± 0.2V |
| | Charge Mode | CC/CV: Constant Current/Constant Voltage |
| | Standard Charge Current | 50A |
| Standard Discharge | Continuous Discharge Current | 100A |
| | Peak Discharge Current | 200A (2C) only for a few seconds) |
| SMART BMS FUNCTION | Circuit Protection | Over Charge & Over Discharge & Over Current & Over Temp & Short Circuit. |
| | Communication Interface | CAN, RS485, or Bluetooth (optional) |
| | Cell Balancing | Passive Balancing for Extended Battery Life |
| | Temperature Monitoring | Inbuilt Sensors for Safe Operation |
| | Remote Monitoring | Remote Monitoring: Mobile App/Web Interface (Optional) |
| Environment | Charge Temperature Range | 0°C to +60°C |
| | Discharge Temperature Range | 0°C to +60°C |
| | Storage Temperature | 0°C o +50°C @60±25% relative humidity |
| | IP Protection Level | IP 65 |
| Mechanical | | |
| | Casing Material | METAL |
| | Dimensions L*B*H (mm) | 425x163x425 mm |
| | Weight | 25 KG |
| | Mounting | Wall-Mount/Standalone |
| | Terminal | ISOLATED |







## Customized Battery Packs Available As Per Requirement

Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark
www.spinoff.in
+91 97780-44000
finike lithium the future of excellence.
www.finikelithium.com

# ESS/Solar Grid Connected Lithium Battery Segment (Modular)

## Features of LiFePO4 Battery 51.2V 100AH Solar battery pack.

**Longer Cycle Life:** Offers longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.

**Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

**Higher Power:** Delivers Twice Power Of Lead Acid Battery, Even High Discharge Rate, While Maintaining High Energy Capacity.

**Wider Temperature Range:** -20°C to +60°C.

**Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

**Compatabilty:** It works with all 'A' grade solar inverter.



## Mechanical

| | |
|---|---|
| Metal Box | MS |
| Approx. Dimensions | L-474 X W-506 X H-206 |
| Approx. Weight | 47kgs |
| Terminal Type | Power Connector 100A (++/--) |

## Environmental

| | |
|---|---|
| Charge Temperature | 0 °C to 55 °C (32F to 131F) @60± 25% Relative Humidity |
| Discharge Temperature | -20 °C to 60 °C (-4F to 140F) 60 +25% Relative Humidity |
| Storage Temperature | 0 °C to 25 °C |
| IP Class | IP 20 |

## Cell

| | |
|---|---|
| Type | LiFePO4 Battery |
| Cell Model | LF41131221-100AH |
| Nominal Capacity | 100Ah @0.5C 90 %DOD |
| Nominal Voltage | 3.2V |
| Approx. Dimensions | L-131 x T-40 x H-221mm |
| Approx. Weight | 2.26kgs |

## Electrical Characteristics

| | |
|---|---|
| Normal Voltage | 51.2V |
| Nominal Capacity | 100AH |
| Minimum Capacity | 95AH |
| Energy | 5120WH |
| Cycle Life | >3000cycles @0.5C 80%DOD |
| Months Self Discharge | >3% |
| Efficiency of Charge | 100%@0.5C |
| Efficiency of Discharge | 96~99%@0.5C |
| BMS Functions | Over Charge, Over Discharge, Over Current, Short Circuit And Temperature Protection |
| Communication | RS485/RS232/CAN |
| Maximum parallel mode | 16 pcs |

## Standard Charge and Discharge

| | |
|---|---|
| Charge Voltage | 57.6V |
| Charge Mode | (CC/CV) |

Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark
www.spinoff.in
+91 97780-44000
finike lithium
the future of excellence.
www.finikelithium.com

# ESS/Telecom Lithium Battery Segment (Modular)

## Ion Battery Technical Specification: 48V

### Overview:

Finike Lithium provides safe & reliable energy storage solutions with wide range of models for **Stationary & eMobility** applications.

- ✓ Quick charging
- ✓ Long cyclic life
- ✓ High specific energy / energy density
- ✓ Zero Maintenance

Low foot print

### Features:

- ✓ RS485 communication output for monitoring.
- ✓ Cell voltage & temperature sensors.
- ✓ Multi-level safety protection for over charge, over discharge, short circuit, temperature etc.,
- ✓ Over current protection in charge/discharge.
- ✓ MOSFET high/low temperature protection.
- ✓ Passive cell balancing.
- ✓ Customized BMS functions and algorithms
- ✓ Data logging.
- ✓ SMART BMS
- ✓ Protection for short circuit (Pack Level).
- ✓ Anti-theft protection (Optional).



### General Characteristics:

| | |
|---|---|
| Nominal Voltage (V) | 48V |
| Energy (KWh) | 4.8KWh |
| Nominal Capacity (Ah) | 100Ah @0.2C,25°C |

### Mechanical Characteristics:

| | | | |
|---|---|---|---|
| Weight | | | 40Kg ± 2 Kg |
| Dimensions (mm) | D | : | (400 ± 5)mm |
| | W | : | (440 ± 5)mm |
| | H | : | (133 ± 5)mm |

### Electrical Characteristics:

| | |
|---|---|
| Operating voltage (V) @100%DOD | 42V to 54V |
| Recommended Voltage(V) @80%DOD | 46.5V to 54V |
| Rated charging voltage (V) | 54V |
| Discharge Cutoff voltage (V) | 42V |
| Max Continuous Charge Current (A) | 0.5C (50A) |
| Recommended Charge current (A) | 0.3C (30A) |
| Max Continuous Discharge Current (A) | 1C (100A) |
| Recommended Discharge current (A) | 0.5C (50A) |

### Operating Conditions:

| | | |
|---|---|---|
| Pack Cycle life (80%DOD@25˚C, 0.2C Charge/Discharge) | | 3000 Cycles |
| Ah Efficiency (%) | | ≥ 99% |
| Operating temperature | Charge | 0°C to 60°C |
| | Discharge | -20°C to 60°C |
| Storage temperature | | -20˚C to40˚C |

***Specification for reference only**

Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium-A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark

www.spinoff.in

+91 97780-44000

finike lithium
the future of excellence.

www.finikelithium.com

# Electric Vehicle Lithium Battery Segment







## Customized Battery Packs Available As Per Requirement

Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark

www.spinoff.in

+91 97780-44000

finike lithium
the future of excellence.

www.finikelithium.com

# Electric Vehicle Lithium Battery Segment

| DATA SHEET-LFP EV -60V30AH | | | |
|---|---|---|---|
| 1 | General Characteristics | **Model** | **60V30AH** |
| | | Chemistry | LFP (Lithium Ferro Phosphate) |
| | | Number Of Cell In Series | 19 |
| | | Number Of Cell In Parallel | 5 |
| | | Total Number Of Cells | 95 |
| | | Nominal Voltage (v) | 60V |
| | | BMS Type | Software BMS-19S 40A |
| | | Nominal Capacity | 30 AH |
| | | Total Energy | 1.8KWH |
| 2 | Electrical Characteristics | Operating Voltage Range (v) | 50V-69V |
| | | Charging Mode | CC/CV |
| | | Recommended Charging Voltage (v) | 69 V |
| | | Standard Discharging Current (A) | 15A |
| | | Maximum Discharging Current (A) | 30A |
| | | Standard Charging Current (A) | 6A |
| | | Maximum Charging Current (A) | 10A |
| | | Battery Low Cut Off (V) | 50V |
| | | Battery High Voltage Cut Off (V) | 69V |
| | | Dod% | 90% |
| 3 | Protections | Cell Over Voltage Protection | Yes |
| | | Cell Under Voltage Protection | Yes |
| | | Charging Over Current Protection | Yes |
| | | Discharging Over Current Protection | Yes |
| | | Output Short Circuit Protection | Yes |
| | | Cell Temperature Protection Incharging & Discharging Mode | Yes |
| 4 | Temperature Characteristics | Operating Temperature During Charging | -10°C to +55°C |
| | | Operating Temperature During Discharging | -10°C to +60°C |
| 5 | Battery IP | IP Category | IP 65 |
| 6 | Warranty | Years | 3 |
| 7 | Mechanical Characteristics | Module dimension (LXWXH) mm | Customized |
| | | Power Connector | Chagori connector |






## Customized Battery Packs Available As Per Requirement

Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark
www.spinoff.in
+91 97780-44000
finike lithium
the future of excellence.
www.finikelithium.com

# Electric Vehicle Lithium Battery Segment

| DATA SHEET-LFP EV -60V24AH | | | |
|---|---|---|---|
| 1 | General Characteristics | **Model** | **60V24AH** |
| | | Chemistry | LFP (Lithium Ferro Phosphate) |
| | | Number Of Cell In Series | 19 |
| | | Number Of Cell In Parallel | 4 |
| | | Total Number Of Cells | 76 |
| | | Nominal Voltage (v) | 60V |
| | | BMS Type | Hardware BMS-19S40A |
| | | Nominal Capacity | 24 AH |
| | | Total Energy | 1.4KWH |
| 2 | Electrical Characteristics | Operating Voltage Range (v) | 50V-69V |
| | | Charging Mode | CC/CV |
| | | Recommended Charging Voltage (v) | 69 V |
| | | Standard Discharging Current (A) | 12A |
| | | Maximum Discharging Current (A) | 24A |
| | | Standard Charging Current (A) | 6A |
| | | Maximum Charging Current (A) | 10A |
| | | Battery Low Cut Off (V) | 50V |
| | | Battery High Voltage Cut Off (V) | 69V |
| | | Dod% | 90% |
| 3 | Protections | Cell Over Voltage Protection | Yes |
| | | Cell Under Voltage Protection | Yes |
| | | Charging Over Current Protection | Yes |
| | | Discharging Over Current Protection | Yes |
| | | Output Short Circuit Protection | Yes |
| | | Cell Temperature Protection Incharging & Discharging Mode | Yes |
| 4 | Temperature Characteristics | Operating Temperature During Charging | -10°C +55°C |
| | | Operating Temperature During Discharging | -10°C to +60°C |
| 5 | Battery IP | IP Category | IP 65 |
| 6 | Warranty | Years | 3 |
| 7 | Mechanical Characteristics | Module dimension (LXWXH) mm Over all Weight(KG) | Customized |
| | | Power Connector | D type 3 Pin & Anderson SB 50 |






## Customized Battery Packs Available As Per Requirement

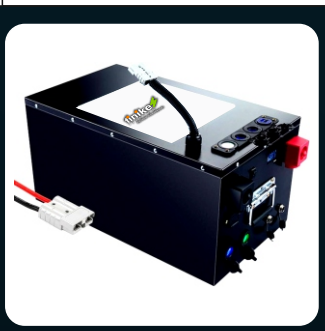
Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark
www.spinoff.in
+91 97780-44000
finike lithium
the future of excellence.
www.finikelithium.com

# Electric Vehicle Lithium Battery Segment

| DATA SHEET- LITHIUM-ION E-RIKSHAW BATTERY PACK-48V 100AH WITH GPS | | | |
|---|---|---|---|
| 1 | General Characteristics | **Model** | **48V100AH** |
| | | Chemistry | LFP (Lithium Ferro Phosphate) |
| | | Number Of Cell In Series | 15 |
| | | Number Of Cell In Parallel | 1 |
| | | Total Number Of Cells | 15 |
| | | Nominal Voltage (v) | 48V |
| | | BMS Type | Software BMS-48V 100A |
| | | Nominal Capacity | 100 AH |
| | | Total Energy | 4.8KWH |
| 2 | Electrical Characteristics | Operating Voltage Range (v) | 42V-54V |
| | | Charging Mode | CC/CV |
| | | Recommended Charging Voltage (v) | 54 V |
| | | Standard Discharging Current (A) | 100A |
| | | Standard Charging Current (A) | 50A |
| | | Battery Low Cut Off (V) | 37.5V-42.5V |
| | | Battery High Voltage Cut Off (V) | 51.75V-54.75V |
| | | Dod% | 90% |
| 3 | Monitoring Characteristic | Module Buletooth | Yes |
| | | Can Communication | Yes |
| 4 | Protections | Cell Over Voltage Protection | Yes |
| | | Charging Under Voltage Protection | Yes |
| | | Charging Over Current Protection | Yes |
| | | Discharging Over Current Protection | Yes |
| | | Output Short Circuit Protection | Yes |
| | | Cell Temperature Protection Incharging & Discharging Mode | Yes |
| 5 | Temperature Characteristics | Operating Temperature During Charging | 0°C to +55°C |
| | | Operating Temperature During Discharging | -20°C to +60°C |
| 6 | Battery IP | IP category | IP 65 |
| 7 | Warranty | Years | 3 |
| 8 | Mechanical Characteristics | Module dimension (LXWXH) mm Over all Weight(KG) | Customized |
| | | Power Connector | D type 3 Pin & Anderson SB 50 |
| 9 | Accessories | Cables (Red & Black) SOC INDICATOR | 2.0 meter |
| 10 | GPS | Enabled | Yes |
| 11 | Live Location | Enabled | Yes |
| 11 | Software | Enabled | Yes |





## Customized Battery Packs Available As Per Requirement

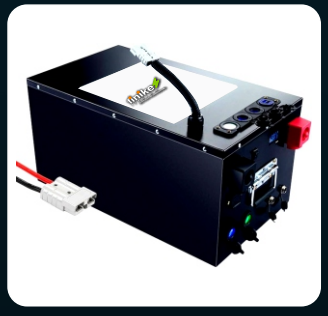
Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark
www.spinoff.in
+91 97780-44000
finike lithium
the future of excellence.
www.finikelithium.com

# Electric Vehicle Lithium Battery Segment

| DATA SHEET- LITHIUM-ION E-LOADER BATTERY PACK-48V 200AH WITH GPS | | | |
|---|---|---|---|
| 1 | General Characteristics | **Model** | **48V200AH** |
| | | Chemistry | LFP (Lithium Ferro Phosphate) |
| | | Number Of Cell In Series | 15 |
| | | Number Of Cell In Parallel | 2 |
| | | Total Number Of Cells | 30 |
| | | Nominal Voltage (v) | 48V |
| | | BMS Type | Software BMS-48V 200A |
| | | Nominal Capacity | 200 AH |
| | | Total Energy | 9.6KWH |
| 2 | Electrical Characteristics | Operating Voltage Range (v) | 42V-54V |
| | | Charging Mode | CC/CV |
| | | Recommended Charging Voltage (v) | 54 V |
| | | Standard Discharging Current (A) | 100A |
| | | Standard Charging Current (A) | 50A |
| | | Battery Low Cut Off (V) | 37.5V-42.5V |
| | | Battery High Voltage Cut Off (V) | 51.75V-54.75V |
| | | Dod% | 90% |
| 3 | Monitoring Characteristic | Module Buletooth | Yes |
| | | Can Communication | Yes |
| 4 | Protections | Cell Over Voltage Protection | Yes |
| | | Charging Under Voltage Protection | Yes |
| | | Charging Over Current Protection | Yes |
| | | Discharging Over Current Protection | Yes |
| | | Output Short Circuit Protection | Yes |
| | | Cell Temperature Protection Incharging & Discharging Mode | Yes |
| 5 | Temperature Characteristics | Operating Temperature During Charging | 0°C to +55°C |
| | | Operating Temperature During Discharging | -20°C to +60°C |
| 6 | Battery IP | IP category | IP 65 |
| 7 | Warranty | Years | 3 |
| 8 | Mechanical Characteristics | Module dimension (LXWXH) mm Over all Weight(KG) | Customized |
| | | Power Connector | D type 3 Pin & Anderson SB 50 |
| 9 | Accessories | Cables (Red & Black) SOC INDICATOR | 2.0 meter |
| 10 | GPS | Enabled | Yes |
| 11 | Live Location | Enabled | Yes |
| 11 | Software | Enabled | Yes |





## Customized Battery Packs Available As Per Requirement

Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark

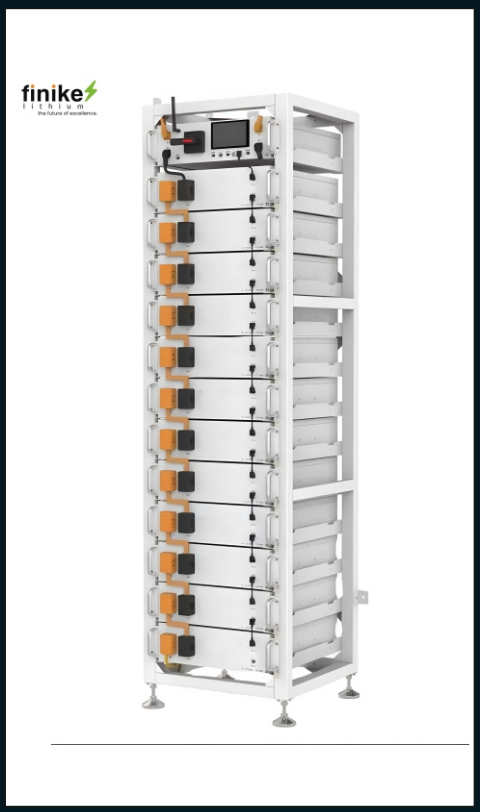
www.spinoff.in

+91 97780-44000

finike lithium
the future of excellence.

www.finikelithium.com

# High Voltage Lithium Ion Battery Energy Storage System




| | | |
|---|---|---|
| Module Energy | 5.12 kWh | |
| Module Nominal Voltage | 51.2V | |
| Module Capacity | 100A | |
| Battery Module Qty 1 in Series | 7 | 10 |
| System Nominal Voltage (V) | 358.4V | 512V |
| Charge Voltage (V) | 386.4V~403.2V | 552V~576V |
| Cut-Off Discharge Voltage(V) | 386.4V | 552V |
| Float Charge Voltage(V) | 386.8V~386.4V | 544V~442V |
| System Energy | 35.80kWh | 51.20kWh |
| Recommend Depth of Discharge | 90% | |
| Storage Temperature | 0~45°C | |
| Communication Port | CAN/RS485 | |
| Status Indicator | RUN-Green Light;Alarm-Red Light | |
| IP Rating of Enclosure | IP20 | |
| Dimension (W/D/H, mm) | 600*800*1500 | 600*800*2000 |
| Installation Location | Rack/ Cabinet,Indoor | |
| Cycle Life | ⩾4000 cycles at 0.5C/0.5C ,25°C | |
| Warranty | 5 years | |
| Certification | IEC62619,UN38.3,MSDS | |

## Product Details



- **Safety & Reliability**
  - Air conditioner in cabinet, fans & fire extinguishing device in battery module
  - LiFePO4 battery with higher safety & longer lifetime
  - Three-layer architecture built in BMU+RBMS+SBMS for multiple protection
- **Convenience**
  - Standard 19 inch rack design for easy installation and maintenance
  - Supporting USB upgrade software
  - Touchable screen design for choosing different communication protocol
- **Flexibility**
  - Standard modular design with 5.12kWh per battery modules
  - Flexible design from 4~14 battery modules in series
  - Flexible capacity & power scalability with up to 8 clusters in parallel

***Specification for reference only**


Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium-A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark

www.spinoff.in

+91 97780-44000

finike lithium
the future of excellence.

www.finikelithium.com





| Rated Voltage | 192V | | 384V | 480V | 512V |
|---|---|---|---|---|---|
| Rated Capacity | 50Ah | 100Ah | 100Ah | 100Ah | 100Ah |
| Rated Energy | 9.60kWh | 19.20kWh | 38.40kWh | 48.00kWh | 51.20kWh |
| Output Voltage Range | 162V~216V | | 324V~432V | 420.0V~540.0V | 432V~576V |
| Charging Voltage | 216V | | 432V | 540.0V | 552V |
| Cut-off Voltage | 162V | | 324V | 420.0V | 432V |
| Max. Charging Current | 50A | 100A | 100A | 100A | 100A |
| Recommended Charging Current | 25A | 50A | 50A | 100A | 100A |
| Max.Discharging Current | 200A | 400A | 400A | 400A | 400A |
| Efficiency | >98% | | | | |
| Dimension L*W*H( mm ) | 600*800*1200 | 600*1000*1200 | 600*1000*2000 | 1200*1000*2000 | 1200*1200*2000 |
| Weight ( kg ) | ≈190 | ≈230 | ≈550 | ≈950 | ≈1039 |
| Humidity | 5%~95% Relative humidity | | | | |
| Charging Temperature | 0℃~55℃ | | | | |
| Discharging Temperature | -20℃~60℃ | | | | |
| Storage Temperature | -10℃~30℃ | | | | |
| Cycle Life | >6000 times ( 0.2C, @25℃, 80%DOD ) | | | | |
| Design Life | >10 years | | | | |

- Higher Energy Density, Compact Design, delivers higher energy density, longer life circle etc
- Built-in BMS management system with comprehensive protection and monitoring and control functions
- Support CAN & RS485 communication with UPS or PC
- Environmental protection and pollution-free materials, no heavy metals, green and environmental protection
- Accurately estimate the state of charge of the battery pack, that is, the remaining power of the battery, to ensure that the power of the battery pack is maintained within a reasonable range

**Data Center**

**Telecommunications equipment and surveillance systems**

**Industrial Process Control**

***Specification for reference only**


Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium-A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark

www.spinoff.in

+91 97780-44000

finike lithium
the future of excellence.

www.finikelithium.com

# Telecom Lifepo4 Battery

## Optional Customization Types

- Racked Placement
- Customized Logo
- Multiple Shell Colors
- Customized Capacity

## Product Details







- LFP (lithium iron phosphate) cell to ensure the highest safety
- Built-In BMS protects the cell such as temperature, current, voltage, SoC, SoH
- Extra long cycle life times with 6000 cycles with 80% DoD
- Compatible with most of the available inverters
- Possibility of parallel connection with up to 16 pieces



| Rated Voltage | 48V | | | |
|---|---|---|---|---|
| Rated Capacity | 50Ah | 100Ah | 150Ah | 200Ah |
| Rated Energy | 2.40kWh | 4.80kWh | 7.20kWh | 9.60kWh |
| Output Voltage Range | 40.5V~54.75V | | | |
| Charging Voltage | 54~54.75V | | | |
| Cut-off Voltage | 40.5V | | | |
| Max. Charging Current | 50A | 100A | 100A | 100A |
| Recommended Charging Current | 25A | 50A | 50A | 50A |
| Max.Discharging Current | 50A | 100A | 100A | 100A |
| Efficiency | >98% | | | |
| Dimension L*W*H( mm ) | 480*442*135 | 480*442*155 | 500*442*200 | 680*442*226 |
| Weight ( kg ) | ≈28 | ≈45 | ≈58 | ≈86 |
| Humidity | 5%~95% Relative humidity | | | |
| Charging Temperature | 0℃~55℃ | | | |
| Discharging Temperature | -20℃~60℃ | | | |
| Storage Temperature | -10℃~30℃ | | | |
| Cycle Life | >6000 times ( 0.2C, @25℃, 80%DOD ) | | | |
| Design Life | >10 years | | | |

*Specification for reference only

Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium-A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

spinoff technopark

www.spinoff.in

+91 97780-44000

finike lithium
the future of excellence.

www.finikelithium.com

## Application Scenarios





- **Safety & Reliability**
  - Air conditioner in cabinet, fans & fire extinguishing device in battery module
  - LiFePO4 battery with higher safety & longer lifetime
  - Three-layer architecture built in BMU+RBMS+SBMS for multiple protection
- **Convenience**
  - Standard 19 inch rack design for easy installation and maintenance
  - Supporting USB upgrade software
  - Touchable screen design for choosing different communication protocol
- **Flexibility**
  - Standard modular design with 5.12kWh per battery modules
  - Flexible design from 4~14 battery modules in series
  - Flexible capacity & power scalability with up to 8 clusters in parallel



| | | |
|---|---|---|
| Module Energy | 5.12 kWh | |
| Module Nominal Voltage | 51.2V | |
| Module Capacity | 100A | |
| Battery Module Qty 1 in Series | 12 | 14 |
| System Nominal Voltage (V) | 614.4V | 716.8V |
| Charge Voltage (V) | 662.4V~691.2V | 772.8V~806.4V |
| Cut-Off Discharge Voltage(V) | 518.4V | 608.4V |
| Float Charge Voltage(V) | 652.8V~662.4V | 761.6V~772.8V |
| System Energy | 61.44kWh | 71.68kWh |
| Recommend Depth of Discharge | 90% | |
| Storage Temperature | 0~45°C | |
| Communication Port | CAN/RS485 | |
| Status Indicator | RUN-Green Light;Alarm-Red Light | |
| IP Rating of Enclosure | IP20 | |
| Dimension (W/D/H, mm) | 800*1300*1500 | 800*1300*1500 |
| Installation Location | Rack/ Cabinet,Indoor | |
| Cycle Life | ⩾4000 cycles at 0.5C/0.5C ,25°C | |
| Warranty | 5 years | |
| Certification | IEC62619,UN38.3,MSDS | |

*Specification for reference only

Rajpura :- Nh1, Rajpura-Ludhiana Road, Rajpura, Punjab
Mohali :- E-226, Ph-8b, Ind Area, SAS Nagar, Mohali, Punjab
Corporate Office :- SCO-117/118, Sec-43B, Chandigarh

Finike Lithium-A Unit Of Spinoff Technopark Pvt. Ltd.
Cell No. - +91 97780-44000

# finike lithium

the future of excellence.

## GET IN TOUCH

Address:-nh1, Rajpura-Ludhiana Road
Rajpura , Punjab-140401

Cell:- +91 97780-44000

Web:-www.finikelithium.com, www.spinoff.in

