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# SMART POWER
# SMOOTH SAILING

Energy Solution Expert

















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Shenzhen Ray-tech International Limited

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# COMPANY PROFILE

Founded in 2010, Shenzhen Ray-tech International Limited began as a specialist in customized battery solutions.

In 2015, we launched the LILEAD brand with a clear mission: to replace outdated lead-acid batteries with smarter, safer, and more powerful lithium energy.

“LILEAD” stands for Lithium, Leisure, and Lead—reflecting our commitment to innovation and redefining power for modern adventures.

For over a decade, we’ve powered RVs, boats, cabins, and motorcycles worldwide with plug-and-play batteries built for Power & Ease — delivering high performance, long-term reliability, and true simplicity: just install and go.

Trusted globally, LILEAD continues to push the boundaries of lithium energy for leisure and marine applications.



3000m² + Production Base

## Awards and Certifications




## R&D and Manufacturing Base

LILEAD’s R&D and manufacturing base integrates product design and technological innovation, equipped with advanced production facilities and a team of professionals. The facility strictly adheres to international quality management systems to ensure high product reliability and consistency. We continuously invest in innovation resources to drive technological advancement and product upgrades. Serving global market demands, the base also delivers customized solutions tailored to customer needs.



# WHY LILEAD

All-Scenario Applications

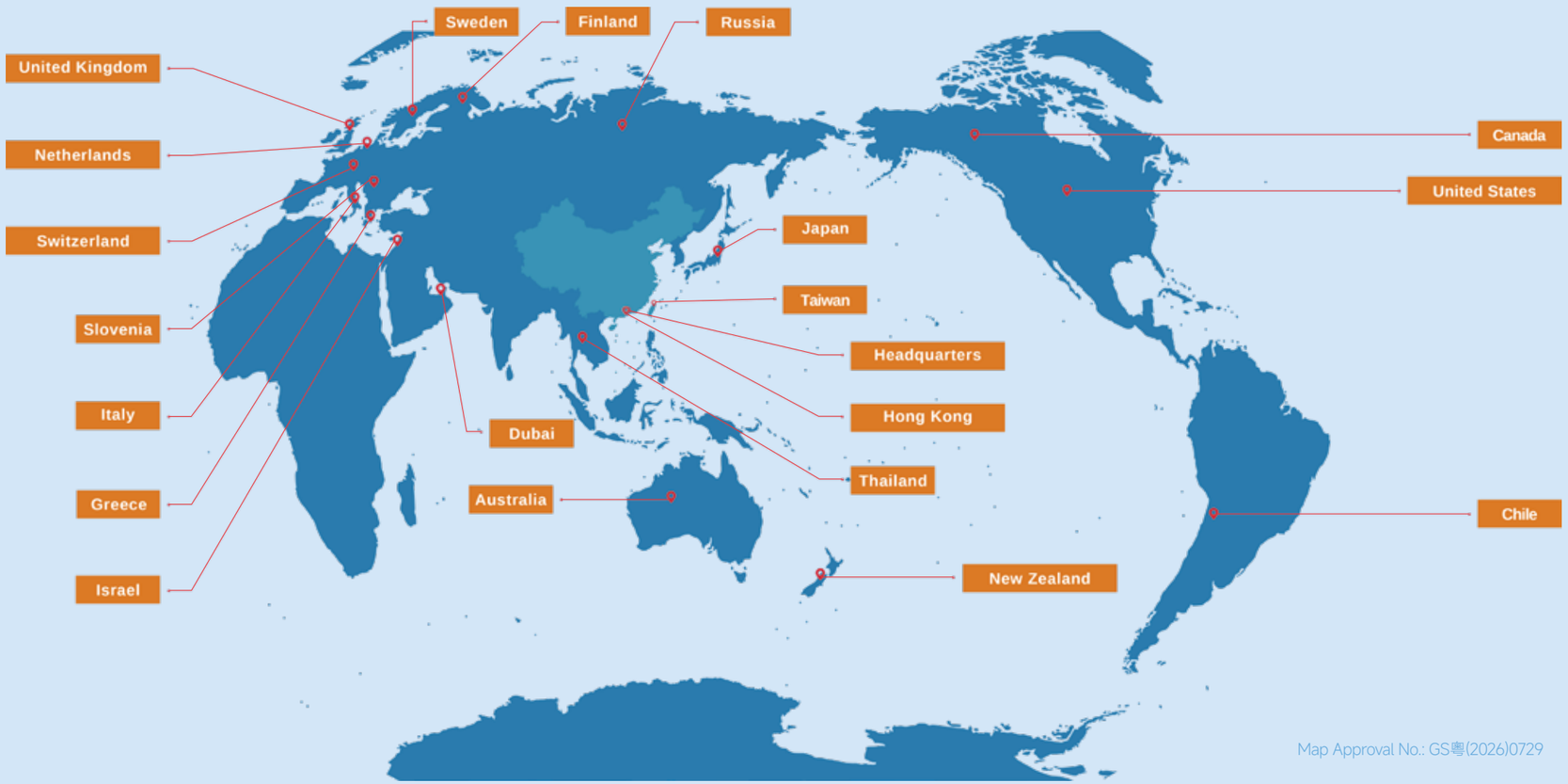
Plug-and-Play, Effortless Installation

Superior Protection Performance

Ultra-long Lifespan, Built to Last

Lightweight & Energy-Efficient Design

Fast delivery, Worry-free After-sales Service




Map Approval No.: GS粵(2026)0729

## A Growing Presence On The Global Stage

LILEAD has established a comprehensive global after-sales service network, with service centers covering North America, Europe, the Middle East, Southeast Asia, and the Asia-Pacific region. We work closely with multiple local professional partners to provide customers with timely, efficient, and reliable technical support and after-sales services.

# D Series

## DEEP CYCLE BATTERIES

- Cost-Effective & Customizable
- 67% Weight Reduction & High Reserve Capacity
- Optional Low-Temperature Heating Module
- Bluetooth Intelligent Monitoring
- IP67 All-Round Rugged Protection
- 7000+ Long Service Cycles

### CERTIFICATES

CE, IP67, UN38.3, UL94-V0

### APPLICATION SCENARIOS

Boat · Trolling Motor · Dump Trailer · Trailer · Motorhome · Home

Waterproof Test Video

105Ah LiFePO4 vs 100Ah AGM






D105BT、D200BT、D280BT、D314BT

## Battery Tech Data

| | | D105BT | D200BT | D280BT | D314BT |
|---|---|---|---|---|---|
| Stored energy | | 1344Wh | 2560Wh | 3584Wh | 4020Wh |
| Rated capacity | | 105Ah | 200Ah | 280Ah | 314Ah |
| Nominal voltage | | 12.8V | | | |
| Volt range | | 10V-14.4V | | | |
| Charge time | Standard | 5.5h | | | |
| | Rapid | 1.5h | 2.5h | 2.5h | 2.5h |
| Charge method CC-CV | Standard | 22A/14V | 60A/28V | 60A/28V | 60A/28V |
| | Rapid | 100A/14V | 150A/28V | 150A/28V | 150A/28V |
| Max discharge continous current | | 100A | 150A | 150A | 150A |
| Cycle life 0.5C.23°C/73°F | 50% | >7000 cycles | | | |
| | 100% | > 2000 cycles | | | |
| Operating temperature range | Charge | 3°C~45°C/37°F~113°F | 0°C~55°C/32°F~131°F | 0°C~55°C/32°F~131°F | 0°C~55°C/32°F~131°F |
| | Discharge | -20°C~55°C/-4°F~131°F | -20°C~60°C/-4°F~140°F | -20°C~60°C/-4°F~140°F | 20°C~60°C/-4°F~140°F |
| | Storage(1month) | -10°C~45°C/14°F~113°F | -20°C~45°C/-4°F~113°F | -20°C~45°C/-4°F~113°F | -20°C~45°C/-4°F~113°F |
| | Storage(6month) | 0°C~35°C/32°F~95°F | -10°C~35°C/14°F~95°F | -10°C~35°C/14°F~95°F | -10°C~35°C/14°F~95°F |
| Water proof | | IP67 | | | |
| Approx weight | | 13.5kg /29.7lbs | 22kg/48.5lbs | 27kg/59.5lbs | 28kg/61.7lbs |
| Dimensions (L*W*H) | | 329*172*226mm<br>12.95*6.77*8.54in | 502*187*241mm<br>19.76*7.36*9.49in | 484*170*241mm<br>19.06*7.06*9.49in | 484*170*241mm<br>19.06*7.06*9.49in |
| Series & parallel connection | | · Maximum 4 in series connection.<br>· Supports multiple batteries in parallel for yacht and RV applications.<br>· Batteries must be fully charged before connecting in series or parallel. | | | |

## D24100BT、D24280、D24314BT




## Battery Tech Data

| | | D24100BT | D24280 | D24314BT |
|---|---|---|---|---|
| Stored energy | | 2560Wh | 7168Wh | 8038Wh |
| Rated capacity | | 100Ah | 280Ah | 314Ah |
| Nominal voltage | | 25.6V | | |
| Volt range | | 20V-28.8V | | |
| Charge time | Standard | 5.5h | | |
| | Rapid | 1.5h | 2h | |
| Charge method CC-CV | Standard | 20A/28V | 60A/28V | |
| | Rapid | 100A/28V | 150A/28V | |
| Max discharge continous current | | 100A | Surge(30S) : 300A | |
| | | | 200A | |
| Cycle life 0.5C.23°C/73°F | 50% | >7000 cycles | | |
| | 100% | >2000 cycles | | |
| Operating temperature range | Charge | 0°C~55°C/32°F~131°F | | |
| | Discharge | -20°C~60°C/-4°F~140°F | | |
| | Storage(1month) | -20°C~45°C/-4°F~113°F | | |
| | Storage(6month) | -10°C~35°C/14°F~95°F | | |
| Water proof | | IP67 | | |
| Approx weight | | 22kg /48.5lbs | 50kg /110lbs | 53Kg/ 116lbs |
| Dimensions (L*W*H) | | 502*187*241mm<br>19.76*7.36*9.49in | 640*225*240mm<br>25.4*8.9*9.5in | 640*225*240mm<br>25.4*8.9*9.5in |
| Series & parallel connection | | · Maximum 2 in series connection.<br>· Supports multiple batteries in parallel for yacht and RV applications.<br>· Batteries must be fully charged before connecting in series or parallel. | | |



## D36100BT、D48100BT




## Battery Tech Data

| | | D36100BT | D48100BT |
|---|---|---|---|
| Stored energy | | 3840Wh | 5120Wh |
| Rated capacity | | 100Ah | |
| Nominal voltage | | 38.4V | 51.2V |
| Volt range | | 30V-43.2V | 40V-57.6V |
| Charge time | Standard | 5.5h | |
| | Rapid | 1.5h | |
| Charge method CC-CV | Standard | 20A/42V | 20A/56V |
| | Rapid | 100A/42V | |
| Max discharge continous current | | 100A | |
| Cycle life 0.5C.23°C/73°F | 50% | >7000 cycles | |
| | 100% | > 2000 cycles | |
| Operating temperature range | Charge | 0°C~55°C/32°F~131°F | |
| | Discharge | -20°C~60°C/-4°F~140°F | |
| | Storage(1month) | -20°C~45°C/-4F~113°F | |
| | Storage(6month) | -10°C~35°C/14F~95°F | |
| Water proof | | IP67 | |
| Approx weight | | 30kg /66lbs | 39kg /85.98lbs |
| Dimensions (L*W*H) | | 523*270*225mm<br>20.59*10.63*8.86in | 523*270*225mm<br>20.59*10.63*8.86in |
| Series & parallel connection | | · Series conncetion is not available.<br>· Supports multiple batteries in parallel for yacht and RV applications.<br>· Batteries must be fully charged before connecting in series or parallel. | |

# S Series

## STARTING BATTERIES

- 1000-1800A Peak Power
- Mercury Marine Compliant
- App-Controlled Reserve Jump Start
- 100kg Weight Reduction
- IP67 360° Protection
- 5x Longer Lifespan, 70% Lower Cost

### CERTIFICATES

Pack: UN38.3, CE， UL94-V0
Cell: UN38.3, UL1642, IEC62619

S24110 Jump Starts CAT 637kW

24V Battery Powers "Blue Whale" Vessel

S110 Reserve Jump Start in Action

S110 Quality Test Video

Cranking Test: YANMAR 295kW Engine

### APPLICATION SCENARIOS

Boat | Trolling Motor | Dump Trailer | Trailer | Motorhome | Home






## S110BT、S200BT、S24110BT

## Battery Tech Data

| | | S110BT | S200BT | S24110BT |
|---|---|---|---|---|
| Stored energy | | 1408Wh | 2560Wh | 2816Wh |
| Rated capacity | | 110Ah | 200Ah | 110Ah |
| Nominal voltage | | 12.8V | | 25.6V |
| Volt range | | 10V~14.4V | | 20V~29.2V |
| Charge time | Standard | 5 | | |
| | Rapid | 1.5h | | |
| Charge method CC-CV | Standard | 22A/14V | 40A/14V | 22A/29.2V |
| | Rapid | 100A/14V | 150A/14V | 100A/29.2V |
| Max discharge current | Peak(10s) | 1000A | 1800A | 1000A |
| | Surge(60S) | 400A | | |
| | Continous | 100A | | |
| Cycle life 0.5C.23°C/73°F | 50% | > 7000 cycles | | |
| | 100% | >2000 cycles | | |
| Operating temperature range | Charge | 0°C~55°C/32°F~131°F | | |
| | Discharge | -20°C~60°C/-4°F~140°F | | |
| | Storage(1month) | -20°C~45°C/-4°F~113°F | | |
| | Storage(6month) | -10°C~35°C/14°F~95°F | | |
| Water proof | | IP67 | | |
| Flammability rating | | UL94-V0 | | |
| Approx weight | | 11kg /24.3lbs | 19.8kg /43.6lbs | 19.8kg /43.6lbs |
| Dimensions (L*W*H) | | 279*175*189mm<br>11*6.9*7.9in | 376*194*227mm<br>14.8*7.63*8.94in | 376*194*227mm<br>14.8*7.63*8.94in |
| Series & parallel connection | | · Supports 4-series connection for deepcycle use only; | | · Supports 2-series connection for deepcycle use only; |
| | | · Strictly forbid series for starting; · Support multiple batteries in parallel for yacht and RV application.<br>· Batteries must be fully charged before connecting in series or parallel. | | |

# PRO Series

## NMEA2000&VICTRON BATTERIES

- Real-Time Power Monitoring with One-Touch Control
- UL-Certified Cells with 7-Layer Safety Protection
- All-Weather Extreme Temperature Resistance
- Plug-and-Play Auto-Networking
- Max 20KW Single Unit Output
- Full Victron Ecosystem Compatibility

### CERTIFICATES

Pack: UN38.3, CE, UL94-V0, FCC
Cell: UN38.3, UL1642, IEC62619

### APPLICATION SCENARIOS

Boat | Trolling Motor | Dump Trailer | Trailer | Motorhome | Home

S24110Pro Connects VICTRON System

S220Pro Single Battery Setup

Easy NMEA 2000 Setup






## Battery Tech Data

| | | S220PRO | S24110PRO | D3665PRO |
|---|---|---|---|---|
| Stored energy | | 2816Wh | 2816Wh | 2496Wh |
| Rated capacity | | 220Ah | 110Ah | 65Ah |
| Nominal voltage | | 12.8V | 25.6V | 38.4V |
| Volt range | | 10V~14.4V | 20V~28.8V | 30V~43.2V |
| Charge time | Standard | 5.5h | | |
| | Rapid | 1.5h | | |
| Charge method CC-CV | Standard | 40A/14V | 22A/28V | 13A/42V |
| | Rapid | 150A/14V | 110A/28V | 60A/42V |
| Max discharge current | Peak(10s) | 1800A | 1000A | 250A |
| | Surge(60S) | 400A | 400A | |
| | Continous | 200A | 100A | 65A |
| Cycle life 0.5C.23°C/73°F | 50% | >7000cycles | | |
| | 100% | >2000cycles | | |
| Operating temperature range | Charge | 0°C~55°C/32°F~131°F | 0°C~55°C/32°F~131°F | 0°C~45°C/32°F~113°F |
| | Discharge | -20°C~60°C/-4°F~140°F | -20°C~60°C/-4°F~140°F | -20°C~45°C/-4°F~113°F |
| | Storage(1month) | -20°C~45°C/-4°F~113°F | | |
| | Storage(6month) | -10°C~35°C/14°F~95°F | | |
| Water proof | | IP67 | | |
| Flammability rating | | UL94-V0 | | |
| Approx weight | | 21.3kg/46.9lbs | 21.3kg/46.9lbs | 21.3kg/46.9lbs |
| Dimensions (L*W*H) | | 378*205*257mm 14.9*8.1*10.1in | 378*205*257mm 14.9*8.1*10.1in | 378*205*257mm 14.9*8.1*10.1in |
| Series & parallel connection | | · Series conncetion is not available. · Support Maximum 8 batteries in parallel for yacht and RV application. · Batteries must be fully charged before connecting in series or parallel. | | |

# E Series

## SMART MARINE BATTERIES

- 72-Hour Salt Spray Test Passed
- Comprehensive Data Visualization
- Hot-Swappable & Dual Communication Protocol
- Proactive Victron Linked Charge Management
- Automatic Intelligent Generator Control
- Fire Interlock Emergency Power-Off

### CERTIFICATES

Pack: UN38.3, CE
Cell: UN38.3, UL1642, IEC62619

48V Smart Lithium Waterproof Demo

Powering 60ft Luxury

48V Lithium Batteries Hot-Swap in Action

Replacing a Damaged Battery

E48125 Display Connection Guide

### APPLICATION SCENARIOS

Boat | Trailer | Motorhome | Home | Optional for Lilead Display






## Battery Tech Data

| | | E110 | E440 |
|---|---|---|---|
| Stored energy | | 1344Wh | 5632Wh |
| Rated capacity | | 105Ah | 440Ah |
| Nominal voltage | | 12.8V | |
| Volt range | | 10V~14.4V | |
| Charge time | Standard | 5h | |
| | Rapid | 1.2h | 2.2h |
| Charge method CC-CV | Standard | 22A/14V | 90A/14V |
| | Rapid | 100A/14V | 200A/14V |
| Max discharge current | Continuous | 100A | 200A |
| Cycle life 0.5C.23°C/73°F | 50% | > 7000 cycles | |
| | 100% | > 2000 cycles | |
| Operating temperature range | Charge | 0°C~45°C/32°F~113°F | |
| | Discharge | -20°C~60°C/-4°F~140°F | |
| | Storage(1month) | -20°C~45°C/-4°F~113°F | |
| | Storage(6month) | -10°C~35°C/-4°F~95°F | |
| Water proof | | IP67 | |
| Communication protocol | | VICTRON, CAN Bus, RS485, NMEA2000 | |
| Approx weight | | 12Kg/26.46lbs | 50Kg/110.2lbs |
| Dimensions (L*W*H) | | 330*175*220mm<br>13*6.9*8.7in | 520*268*220mm<br>20.5*10.6*8.7in |
| Series & parallel connection | | · Series conncetion is not available. · Support Maximum 8 batteries in parallel for yacht and RV application.<br>· Batteries must be fully charged before connecting in series or parallel. | |

## E24220、E24280、E24314




### Battery Tech Data

| | | E24220 | E24280 | E24314 |
|---|---|---|---|---|
| Stored energy | | 5632Wh | 7168Wh | 8038Wh |
| Rated capacity | | 220Ah | 280Ah | 314Ah |
| Nominal voltage | | 25.6V | | |
| Volt range | | 20V-28.8V | | |
| Charge time | Standard | 5h | 5.5h | |
| | Rapid | 1.2h | 1.5h | |
| Charge method CC-CV | Standard | 44A/14V | 56A/28V | |
| | Rapid | 200A/14V | 200A/28V | |
| Max discharge current | | | Peak(<1s) : 280A | |
| | Continuous | 200A | | |
| Cycle life 0.5C.23°C/73°F | 50% | >7000cycles | | |
| | 100% | >2000cycles | | |
| Operating temperature range | Charge | 0°C~45°C/32°F~113°F | | |
| | Discharge | -20°C~60°C/-4°F~140°F | | |
| | Storage(1month) | -20°C~45°C/-4°F~113°F | | |
| | Storage(6month) | -10°C~35°C/14°F~95°F | | |
| Water proof | | IP67 | | |
| Communication protocol | | VICTRON, CAN Bus, RS485, NMEA2000 | | |
| Approx weight | | 50Kg/110.2lbs | 70kg/155lbs | 70Kg/ 155lbs |
| Dimensions (L*W*H) | | 520*268*220mm<br>20.5*10.6*8.7in | 577*370*235mm<br>22.8*14.6*9.3in | 577*370*235mm<br>22.8*14.6*9.3in |
| Series & parallel connection | | · Series conncetion is not available.<br>· Support Maximum 8 batteries in parallel for yacht and RV application.<br>· Batteries must be fully charged before connecting in series or parallel. | | |



## E48125、E48280、E48314



### Battery Tech Data

| | | E48125 | E48280 | E48314 |
|---|---|---|---|---|
| Stored energy | | 6400wh | 14336Wh | 16076Wh |
| Rated capacity | | 125Ah | 280Ah | 314Ah |
| Nominal voltage | | 51.2V | | |
| Volt range | | 40V-57.6V | | |
| Charge time | Standard | 4.5h | 5.5h | |
| | Rapid | 1.5h | | |
| Charge method CC-CV | Standard | 30A/56V | 56A/56V | 63A/56V |
| | Rapid | 125A/56V | 200A/56V | |
| Max discharge current | | Surge (10min) : 200A | Continuous : 200A | |
| | | Continuous : 125A | | |
| Cycle life 0.5C.23°C/73°F | 50% | >7000cycles | | |
| | 100% | >2000cycles | | |
| Operating temperature range | Charge | 0°C~55°C/32°F~131°F | | |
| | Discharge | -20°C~60°C/-4°F~140°F | | |
| | Storage(1month) | -20°C~45°C/-4°F~113°F | | |
| | Storage(6month) | -10°C~35°C/14°F~95°F | | |
| Water proof | | IP67 | | |
| Communication protocol | | VICTRON, CAN Bus, RS485 | | |
| Approx weight | | 63kg/138.9lbs | 119kg/262lbs | 123kg/271lbs |
| Dimensions (L*W*H) | | 592*355*205mm<br>23.3*14*8.07in | 800*441*240.1mm<br>31.5*17.36*9.45in | 825*441*241mm<br>32.48*17.36*9.49in |
| Series & parallel connection | | · Series connection is not available.<br>· Max 18 batteries in parallel connection; Please contact us for setups with more than 18 batteries in parallel.<br>· Batteries must be fully charged before parallel connection. | | |

# E72125、E96125

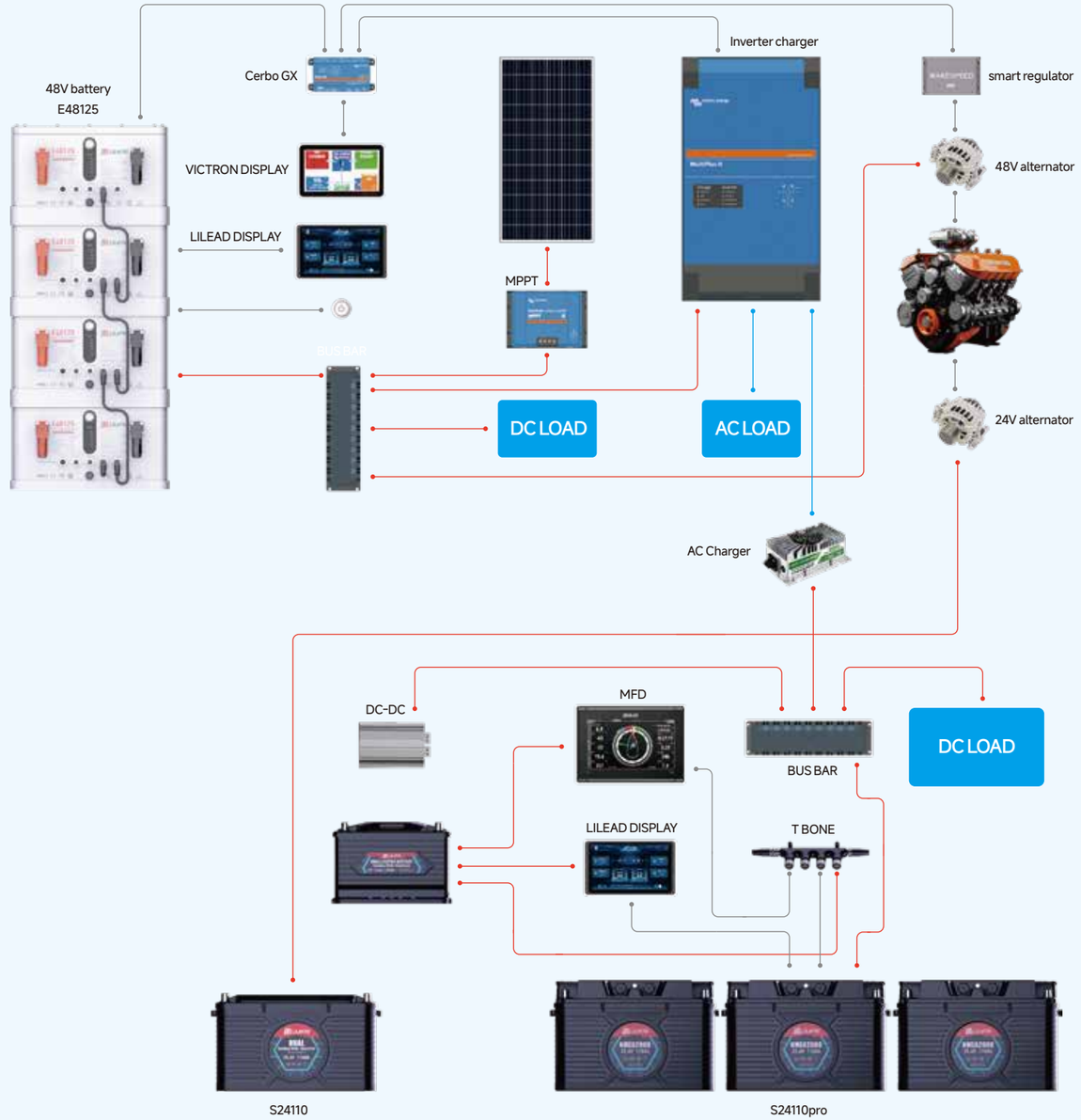


## Battery Tech Data

| | | E72125 | E96125 |
|---|---|---|---|
| Stored energy | | 9600Wh | 12800wh |
| Rated capacity | | 125Ah | 125Ah |
| Nominal voltage | | 76.8V | 102.4V |
| Volt range | | 60V-86.4V | 80V-115.2V |
| Charge time | Standard | 5.5h | |
| | Rapid | 1.2h | |
| Charge method CC-CV | Standard | 25A/84V | 25A/112V |
| | Rapid | 125A/84V | 125A/112V |
| Max discharge current | Pulse current | 500A | 300A |
| | Continuous | 125A | 100A |
| Cycle life 0.5C.23°C/73°F | 50% | >7000cycles | |
| | 100% | >2000cycles | |
| Operating temperature range | Charge | 0°C~55°C/32°F~131°F | |
| | Discharge | -20°C~60°C/-4°F~140°F | |
| | Storage(1month) | -20°C~45°C/-4°F~113°F | |
| | Storage(6month) | -10°C~35°C/14°F~95°F | |
| Water proof | | IP66 | |
| Communication protocol | | VICTRON, CAN Bus, RS485 | |
| Approx weight | | 85Kg/ 187.4lbs | 105kg/231lbs |
| Dimensions (L*W*H) | | 649*495*210mm<br>25.6*19.5*8.3in | 781*495*210mm<br>30.7*19.5*9.3in |
| Series & parallel connection | | · Series conncetion is not available.<br>· Support Maximum 8 batteries in parallel for yacht and RV application.<br>· Batteries must be fully charged before connecting in series or parallel. | |



# Integrated Yacht Battery Solution



# MC Series

## POWER SPORT BATTERIES

- 1/3 Weight, Perfect Fit
- 5x Longer Lifespan
- Simplified Inventory
- 600A Instant Ignition
- Jump-On Start, Anti-Stall Design
- IP67 Military-Grade Durability

CERTIFICATES

Pack: UN38.3, CE, IP67

APPLICATION SCENARIOS

Motorcycle Jetski Snowmobile ATV



Jump on Start Test Video

MC7、MC14、MC30




## Battery Tech Data

| | | MC7 | MC14 | MC30 |
|---|---|---|---|---|
| Stored energy | | 41Wh | 64Wh | 128Wh |
| Amp Hour (PdEq) | | 7Ah,replace 4Ah-7Ah lead acid battery | 14Ah,replace 8Ah-14Ah lead acid battery | 30Ah,replace 15Ah-30Ah lead acid battery |
| Nominal voltage | | 12.8V | | |
| Volt range | | 10V-14.6V | | |
| Charge time | Standard | 5.5h | | |
| | Rapid | 1.5h | | |
| Charge method CC-CV | Standard | 2A/14.4V | 1A/14.4V | 2A/14.4V |
| | Rapid | 10A/14.4V | 5A/14.4V | 10A/14.4V |
| Max discharge current | Crank | 192A | 300A | 600A |
| | Continuous | 3A | 5A | 10A |
| Cycle life 0.5C.23°C/73°F | 10% | >1000cycles | | |
| | 100% | >300 cycles | | |
| Operating temperature range | Charge | 0°C~45°C/32°F~113°F | | |
| | Discharge | 0°C~45°C/32°F~113°F | | |
| | Storage(1month) | 0°C~35°C/32°F~95°F | | |
| | Storage(6month) | 10°C~25°C/50°F~77°F | | |
| Water proof | | IP67 | | |
| Flammability rating | | UL94-V0 | | |
| Approx weight | | 0.6kg/1.3lbs | 0.9kg/1.9lbs | 1.8kg/3.9lbs |
| Dimensions (L*W*H) | | 113*60*86mm<br>4.5*2.4*3.4in | 132*68*104mm<br>5.2*2.7*4.1in | 146*80*144mm<br>5.8*3.2*5.7in |

# Accessories

## 30W Mini DC Charger

- 5V Input & Triple Safety Protection
- IP66 Waterproof & Dustproof
- Smart Charging to Preserve Battery Health
- 30W Dual-Purpose Fast Charging
- Pocket-Sized for Emergency Use
- Wide Compatibility for Diversified Uses

CERTIFICATES

FCC, CE, RoHS， IP66

APPLICATION SCENARIOS

Motorcycle Jetski Snowmobile ATV



30W Mini DC Charger

30W Mini DC Charger Quality Test



## 30W Mini DC Charger









## Battery Tech Data

| Model | 30W Power Elf |
|---|---|
| | **IN Mode** |
| Input | Mobile phone chargers |
| | Power bank |
| | Portable power station,and other power supply devices |
| Output | DC 14.5V/ 2A(Require ≥30W Charger or power supply devices) |
| | DC 14.5V/1.2A(Require 18W Charger or power supply devices) |
| | DC 14.5V/0.6A(Require 10W Charger or power supply devices) |
| Voltage limit | 14.6V |
| Temperature range | Working:-10°C-45°C,-50°F-113°F |
| | Storage: -20°C- 60°C,-68°F- 140°F |
| Charging mode | Fully automatic |
| Suitable forbatteries | 12V Lead acid battery |
| | 12.8V LiFePO4 lithium battery |
| | **OUT Mode** |
| Input | 12V Lead acid battery |
| | 12.8V LiFePO4 lithium battery |
| Output | 5V 3A,9V 3A,12V 2.5A,15V 2A,20V 1.5A, MAX 30W |
| Supported protocols | PD 2.0/3.0、QC 2.0/3.0、AFC、FCP、SCP、PPS、Apple BC1.2、Samsung |
| Certificate | CE, FCC, RoHS |

# Accessories

## LiFePO4 Battery Charger

- Precision Matching for LiFePO4 Batteries
- Dual-Battery Compatibility
- 3-Stage Intelligent Fast Charging
- Full-Range Multiple Safety Protection
- Full-Voltage Range & Wide Compatibility
- Smart Active Charge Management

CERTIFICATES

APPLICATION SCENARIOS

Boat | Trolling Motor | Dump Trailer | Trailer | Motorhome | Home



## LiFePO4 Battery Charger

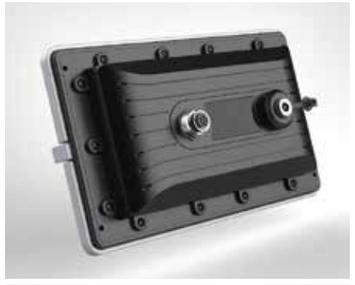
| Watts | Waterproof | Picture | Voltage/Current |
|---|---|---|---|
| 180W | —— |  | 14.6V10A、29.2V6A、43.8V4A、58.4V3A |
| 180W | IP67 |  | 14.6V10A、29.2V6A、43.8V4A、58.4V3A |
| 360W | —— |  | 14.6V20A、29.2V12A、43.8V8A、58.4V6A |
| 360W | IP67 |  | 14.6V18A、29.2V12A、43.8V8A、58.4V6A |
| 600w | —— |  | 14.6V30A、29.2V20A、43.8V13A、58.4V10A |
| 900W | —— |  | 14.6V55A、29.2V30A、43.8V20A、58.4V15A |
| 1100w | IP67 |  | 14.6V30A、29.2V30A、43.8V25A、58.4V20A |
| 1200W | —— |  | 14.6V70A、29.2V40A、43.8V27A、58.4V20A |
| 1500W | IP67 |  | 14.6V80A、29.2V50A、43.8V34A、58.4V25A |
| 3600W | IP67 |  | 14.6V130A、29.2V100A、43.8V68A、58.4V50A |
| Optional Connectors | |  | |

# L7N Display / L7E Display











## Specifications

| Item | Specification | Note |
|---|---|---|
| Input voltage | 10V~57.6V | |
| Screen-On Power Consumption | ≤3.5W | |
| Screen-Off Power Consumption | ≤1W | |
| Display mode | HSDTFT, Transmissive, IPS | - |
| Dimensio | 210*124*56.2mm | - |
| Active area | 154.21(H)x85.92(V)mm | - |
| Number of pixels | 1024*3RGB(H)x600(V) pixel | - |
| Pixel arrangement | RGB stripe | - |
| Display colo | 16.7M color | - |
| Viewing direction | ALLO'Clock | - |
| Input voltage | 10V~57.6V | - |
| Data interface | RGB | |
| Backlight | 3x9 White LEDs In Parallels | |
| CTP | GT91 | Touch Driver IC |
| | G+FF; (full lamination) | Constructio |
| | 1.1mm | CG (Coyer Glass) |
| | NO AF(Anti-fingerprint) | Surface Preparation |
| | ≥6H | Surface Hardness Note(3) |
| Operating temperature | -20°C~60° | Note(4)(6) |
| Storage temperature | -30°C~65°°C | Note(5)(6) |
| Humidity | 90% | Max60°C |
| Weight | TBD | |
| Standard | CE-EMC, RoHS | |

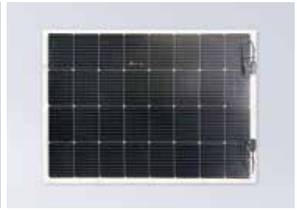
## Product Dimensions

| | |
|---|---|
| Overall Dimensions | |
| Length | 213.77 mm |
| Height | 128.52 mm |
| Total Depth (including connectors) | 66.4 mm |
| Body Depth (excluding connectors) | 45 mm |
| Panel Visible Area | |
| Length | 172.39 mm |
| Height | 94.39 mm |
| Protrusions & Connector Clearance | |
| Depth | 21.4 mm |



# SOLAR PANEL







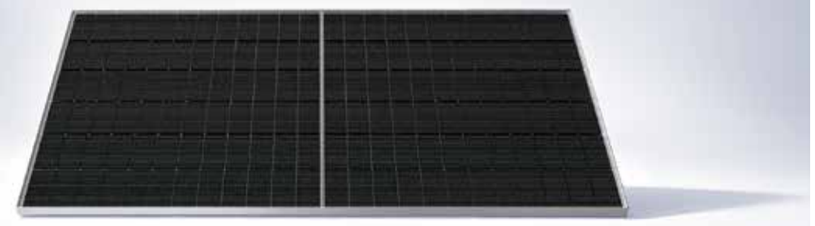
## Electrical Characteristics

| Product code | SFL-100W/18V | 150W/18V | 200W/18V |
|---|---|---|---|
| Maximum power(Pmax) | 100W | 150W | 210W |
| Voltage at Pmax(Vmp) | 18.2 | 18.56V | 18.4V |
| Current at Pmax(Imp) | 5.49 | 8.08A | 12.06A |
| Open-circuit voltage(Voc) | 22.3 | 22.98V | 21.6V |
| Short-circuit current(Isc) | 6.02 | 20.21A | 12.9A |
| Power temperature coefficient | | -0.38%/°C | |
| Voltage temperature coefficient | | -0.27%/°C | |
| Cirrent temperature coefficient | | +0.05%/°C | |
| Cells Efficiency(%) | 17.70% | 17.90% | 17.90% |
| The maximum system voltage | | 45VDC(IEC) | |
| Output power tolerance | | ±3% | |

## Specifications

| Cells | A grade solar cell | A grade solar cell | A grade solar cell |
|---|---|---|---|
| No.of cells and connections | 30(3*10) | 32 (4*8) | 36 (4*9) |
| Module dimension | 990*610*3mm | 1050*800*3mm | 1320*800*3mm |
| Weight | 1.62KG | 3.5KG | 3.6KG |
| Certification | | CE,RoHS,ISO | |

580W-615W



## Electrical Characteristics STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Testuncertainty for Pmax:±3%

| Module Type | AOX-72M10HC580W | AOX-72M10HC585W | AOX-72M10HC590W | AOX-72M10HC595W | AOX-72M10HC600W | AOX-72M10HC605W | AOX-72M10HC610W | AOX-72M10HC615W |
|---|---|---|---|---|---|---|---|---|
| Testing Condition | STC NOCT | STC NOCT | STC NOCT | STC NOCT | STC NOCT | STC NOCT | STC NOCT | STC NOCT |
| Maximum Power(Pmax/W) | 580W 438W | 585W 442W | 590W 446W | 595W 450W | 600W 454W | 605W 458W | 610W 462W | 615W 466W |
| Voltage at Maximum Power(Vmp/V) | 43.50 40.70 | 43.70 40.90 | 43.90 41.10 | 44.10 41.30 | 44.30 41.50 | 44.50 41.70 | 44.70 41.90 | 44.90 42.10 |
| Currentat Maximum Power(Imp/A) | 13.34 10.76 | 13.37 10.81 | 13.44 10.86 | 13.50 10.90 | 13.55 10.94 | 13.60 10.99 | 13.65 11.03 | 13.70 11.07 |
| Open Circuit Voltage(VocV) | 50.50 47.70 | 50.70 47.90 | 50.90 48.10 | 51.10 48.30 | 51.30 48.50 | 51.50 48.70 | 51.70 48.90 | 51.90 49.10 |
| Short Circuit Current(Isc/A) | 14.08 11.36 | 14.14 11.41 | 14.19 11.46 | 14.25 11.51 | 14.30 11.55 | 14.35 11.60 | 14.41 11.64 | 14.46 11.68 |
| Module Efficiency(%) | 22.40% | 22.60% | 22.80% | 23.00% | 23.20% | 23.40% | 23.60% | 23.80% |



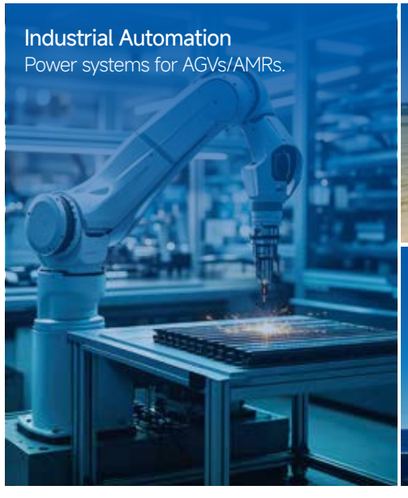
# Custom Battery Solution

## Core Technical Capabilities of LILEAD Battery

We have built full-stack technical capabilities spanning cell selection (covering multiple chemistries including NMC, LFP, and lithium titanate), structural design (IP67-rated protection), BMS development (supporting communication protocols such as CAN, RS485, LIN, and SMBus), and system integration.

## Validated Across Multiple Application Scenarios

Built on 15 years of technical expertise, our solutions have been successfully deployed in:



**Industrial Automation**
Power systems for AGVs/AMRs.



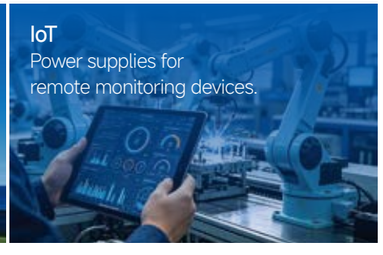
**Agricultural Machinery**
Battery packs for electric tractors.



**Renewable Energy**
Photovoltaic energy storage systems.



**Specialty Vehicles**
Lithium battery systems for recreational vehicles (RVs).



**IoT**
Power supplies for remote monitoring devices.



## Comprehensive Product Portfolio

**Standard Products**
Battery modules such as the S24110 series .

**Custom Solutions**
Flexible configurations ranging from 50 Wh to 215 kWh.

**Energy Storage Systems**
Intelligent ESS (Energy Storage System) solutions.

## Four Core Technology Pillars

| Technical Dimension | Core Capability | Performance Metrics |
|---|---|---|
| Cell Engineering | Multi-chemistry compatibility | Energy density ≥ 200 Wh/L |
| Mechanical Design | Topology optimization and simulation | Passed vibration testing per GB/T 31467.3 |
| Battery Management System | Multi-protocol communication architecture | Supports six communication protocols, including CAN, RS485, LIN, and SMBus |
| Certification Framework | Global compliance solutions | Certified to 12 international standards, including UL 2054, CB, CE, PSE, and IEC 62619 |

## Engineering Implementation Assurance



**Design Verification**
Established DFMEA analysis system.



**Manufacturing Capacity**
Monthly production and testing capacity of 21.5 MWh.



**Testing System**
Compliant with ISO 9001 standards.



**Certification Support**
Simultaneously meets global certification requirements, including UL 2054, IEC 62619, IEC 62620, U N38.3, CE, FCC, PSE, and C-TICK.

We are delivering next-generation battery system solutions to global customers that meet functional safety and cybersecurity requirements, empowering a cleaner, smarter energy future.