Shenzhen SI-SWAY New Energy Co., Ltd

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Version: August 15, 2024, LiFePO Batteries for Forklifts

Tel: +86 0755 - 8527 4971
Email: info@i-swaybattery.com
Web: https://www.swbatt.com/
Add:3F, Building B, Xinxinan Hi-Tech Park, No.11,Tianyang 5th Road, Songgang Street, Bao'an District, Shenzhen City,Guangdong Province, China.

SWBATT

LiFePO4 Batteries

for Material Handling Equipments

Drop-in lithium-ion
for lead-acid
alternatives

Contents

Why SI-SWAY LiFePO Batteries

Retrofit Your Fleet to Lithium-ion Batteries.

5 Year Warranty

Hassle-free experience with 5 year warranty.

Steady Output

LiFePO batteries maintain a steady power output that does not drop dramatically like lead-acid batteries.

Fire Safety

The built-in hota-aerosol fire extinguisher is an efficient and eco-friendly solution that can quickly help with firefighting and reduce fire hazards, providing peace of mind.

Heating Function (Optional)

The optional heating function is designed to warm the battery to an optimal temperature for charging, even in low temperatures down to -20°C.

4G Module

For product position tracking, battery health monitoring, and life cycle management.

4000 + Cycle Life

SI-SWAY LiFePO4 batteries last so long that they are superior to conventional batteries.

SoC Meter

The battery's state of charge, status and malfunctioning information will be displayed in real time.

Anti-walking Function

This feature prevents your equipment from suddenly starting or moving during the charging process.

Built-in Battery Management System (BMS)

The intelligent and reliable BMS can ensure better performance and longer battery life.

IP65 Protection

The IP65 protection grade rating ensures that SI-SWAY batteries are waterproof and dust-proof, maintaining stable performance in all weather conditions.

Retrofit Your Fleet to Lithium-ion Batteries.

The latest technology offers significant value to your business.

The transition from lead-acid to lithium-ion technology is a straightforward and cost-effective process that can significantly enhance fleet productivity and operator efficiency.

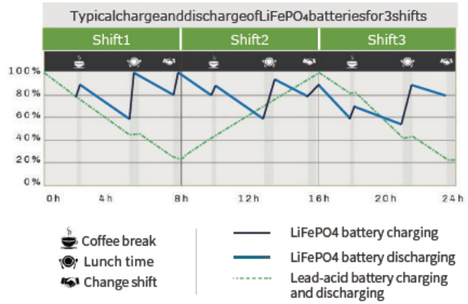
Advantages of lithium-ion batteries

Lead-acid	LiFePO4 batter		
3 years design life	up to 10 years design life	**Longer life** 3 to 4 times lead-acid lifespan	✓ Reduces overall battery investment ✓ Eco-friendly ✓ Minimize the requirement for spares
Frequent maintenance	No maintenance	**0 maintenance** No requirement for the regular replenishment of distilled water and electrolytes.	✓ No regular filling of distilled water ✓ Saving costs on labor and maintenance ✓ Less unplanned downtime and improved productivity ✓ No frequent battery replacements
1-2 years warranty	5 years warranty	**Extended warranty** bring you peace of mind	✓ Durable and reliable ✓ Reduces maintenance and labor costs ✓ Quality guarantee

Minimise periods of equipment unavailability and maximise equipment availability.

In everyday use, the battery can be charged even during short breaks, such as rest periods or shift changes, which effectively increases productivity.

- ✓ Reduces the need for a full charge every time.
- ✓ Eliminates the need for frequent time-consuming battery swaps.
- ✓ Eliminates the risk of battery-changing accidents.
- ✓ Opportunity charge during breaks, lunch and at shift changes. Charge anytime equipment is not in use.



Rapid Charging

Regardless of whether your operation involves a single shift or a large fleet working continuously, fast charge represents a significant competitive advantage.

TIP

Why choose LIFePO batteries for Forklifts?

There are a number of lithium-ion chemistries available for your consideration. SI-SWAY utilises LFP (lithium iron phosphate), which is one of the most thermally stable and safe lithium-ion chemistries for forklifts.

LFP batteries offer a number of advantages over lead-acid batteries. They have a longer lifespan, are more energy-dense, more stable, more compact and weigh less. Our battery packs are sealed units, eliminating the need for daily or weekly watering and maintenance. LFP is the optimal choice for batteries used in

Consistent Power

Lithium-ion batteries provide a consistently high level of performance, which helps to maintain greater productivity even towards the end of a shift.

Eliminate the Need for a Dedicated Charging Area and Frequent Battery Swaps

- ✓ Minimize the requirement to buy, store and maintain spares.
- ✓ Eliminate the cost and storage space required for additional
- ✓ No gassing, no ventilation system needed when charging. No hazardous acid spills.

A modest initial outlay will yield significant returns.

While there may be an initial cost associated with converting your battery to lithium-ion, the ongoing savings on energy, equipment, labour and downtime can help to reduce your overall costs.

The $LiFePO_4$ batteries can offer you

- A longer lifespan reduces the overall investment in batteries.
- No maintenance costs save money on labour and maintenance.
- No gas or acid spills, avoids the space, equipment and running costs of a battery room and ventilation system.
- Energy saving and less downtime, improve productivity.

5-year Cost Comparison to Increase Your Overall Return on Investments.

Save Up to 70% Expenses in 5 Years

Below is the 5-year expenditure table comparing SI-SWAY LiFePO batteries with lead-acid batteries.

Purchases over 5 Years	Lead-acid Battery	LiFePO Battery
Battery cost	5yr	
Maintenance	5yr	/
Electricity waste	5yr	/
Installation	5yr	
Shipping	5yr	

Remark: Actual costs may vary according to local conditions.

SI-SWAY Batteries with Smart & Integrated Systems

Our products provide exceptional performance, enabling users to complete tasks more efficiently and improve productivity. This results in fewer unplanned downtime incidents and overall improved efficiency.

0 Maintenance

5 yr Warranty

Up to **3,500** Cycle Life + Up to **10** yr Design Life

Durable

SI-SWAY batteries have an IP65 ingress rating. They will provide fast lifting and travel speeds at all levels of discharge, under all-weather working conditions.

4G Modules (for Forklift Batteries)

4G modules are designed for remote monitoring of the battery SOC, temperature, and diagnosis, as well as remote software upgrades. Identify and resolve software issues in real time.

Built-in Protection

The Intelligent BMS system is designed for automatic cell balancing and advanced battery management. The LiFePO batteries offer enhanced thermal and chemical stability.

Automotive-grade Battery Manufacturing

To build a world-renowned lithium-ion battery brand and provide superior solutions to meet your needs.

LiFePO4 Batteries for Forklifts

Retrofit Your Fleet to Lithium-ion Batteries.

This product offers unparalleled power and high compatibility for multi-shift applications.

Our batteries are powerful and reliable, boosting efficiency in material handling. They are suitable for a range of applications, including logistics, manufacturing, and daily goods transportation.

SI-SWAY delivers solutions for every brand and size of vehicle, they are generally applied in these famous forklift brands:

Aisle Master	Columbia	Heli	Komatsu	Nissan	TCM
AutoGuide	Combilift	Hoist	Linde	Pack Mule	Toyota
Baoli	Crown	Hubtex	Manitou	Raymond	UniCarriers
Bendi/Landoll	Doosan (Daewoo)	Hyster	Mariotti	Rico	Utilev
Big Joe	Drexel	Hyundai	Mitsubishi	Schreck	White
Blue Giant	Elwell-Parker	Jungheinrich	Motrec	Steinbock	World
Caterpillar	Flexi	Kalmar	Multiton	Taylor-Dunn	Yale
Clark	HC Forklift				

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Which LiFePO Battery is Suitable for Your Forklifts

We make 6 different voltages to cover all classes of equipment.

For Class 1 Forklifts

48 V,80 V, Battery Systems

For Counterbalance Forklifts

For Class 2 Forklifts

24 V Battery System

For Order Pickers, Reach Trucks

For Class 3 Forklifts

24 V Battery System

For Pallet Jacks, Stackers, Tugs

One Stop for All of Your Battery Needs!

LiFePO Batteries for Forklifts

Lithium drop-in replacements for lead-acid batteries.

- Upgrade your fleet to lithium-ion batteries for uninterrupted power and optimal equipment performance. Maximise operational efficiency by powering your equipment for up to three shifts a day.

An Ideal Lithium-ion Solution

Efficient

- High, consistent performance without the voltage drop at the end of the cycle.
- Reduce unplanned downtime with fast, efficient, opportunity charging.
- 10 years design life - a worthwhile upgrade.

Green and Stable

- No acid spills, no noxious gas emissions.
- More thermal & chemical stability.
- Good for you and the planet.

Flexible and Worry-free

- Zero maintenance, no need for water top-ups or electrolyte checks.
- No battery swapping, reduce related accidents and resulting employee injuries.
- No need for specific charging room.

Save Up to **70 %** Expenses in **5** Years

SI-SWAY Lithium Batteries Technical Specifications

Technical Specifications							Charge/Discharge Current			General	
Model	Nominal Voltage	Nominal Capacity	Nominal Energy	Cycle Life	Dimensions (L*W*H)	Weight lbs. (kg)	Charge Current	Continuous Discharge	Maximum Discharge	Casing Material	IP Rating
24V System											
SW24105	25.4V	105Ah	2.68 kWh	4000 times	635×180×538(mm)	50 KG	50A	100 A	300A(30 S)	Steel	IP65
SW24150		150Ah	3.84 kWh		635×180×538(mm)	60 KG	50A	100 A	300A(30 S)		
SW24173		173Ah	4.42 KWh		625×210×630(mm)	80 KG	80A	160 A	480A(30 S		
SW24210		210Ah	5.37 KWh		630×295×290 mm)	50 KG	70A	200 A	300A(30 S)		
SW24280		280Ah	7.16 KWh		655×250×574(mm)	80 KG	200A	200 A	300A(30 S)		
SW24315		315Ah	8.06 KWh		645×240×520 mm)	100 KG	100A	250 A	400A(30 S)		
36V System											
SW36420	38.4V	420Ah	16.12 KWh	4000 times	776×336×610(mm)	200 KG	120A	300 A	450A(30 S)	Steel	IP65
SW36840		840Ah	32.25 KWh		983×521×782(mm)	400 KG	200A	300 A	450A(30 S)		
48V System											
SW48210	51.2V	210 Ah	10.75 kWh	4000 times	800×365×410(mm)	135 KG	105A	210 A	500A(30 S)	Steel	IP65
SW48230		230 Ah	11.77 kWh		8650×300×550(mm)	370 KG	200A	350 A	500A(30 S)		
SW48280		280 Ah	14.33 kWh		780×425×470(mm)	180 KG	140A	280 A	500A(30 S)		
SW48315		315 Ah	16.12 kWh		970×460×740(mm)	230 KG	157A	350 A	500A(30 S)		
SW48460		460 Ah	23.55 KWh		1228×347 ×784(mm)	290 KG	200A	350 A	700A(30 S)		
72V System											
SW72420	73.6V	420 Ah	30.91 kWh	4000 times	800×370×570(mm)	410 KG	200A	350 A	700A(30 S)	Steel	IP65
SW72460		460 Ah	33.85 kWh		1228×347 ×784(mm)	420 KG	200A	350 A	700A(30 S)		
SW72560		560 Ah	41.21 kWh		1028 ×570 ×780(mm)	500 KG	200A	350 A	700A(30 S)		
80V System											
SW80460	80V	460 Ah	36.80 KWh	4000 times	1075×995×495(mm)	1300 KG	150A	300 A	450A(30 S)	Steel	IP65
SW80560		560 Ah	44.80 kWh		1145×680×790(mm)	1300 KG	200A	300 A	450A(30 S)		

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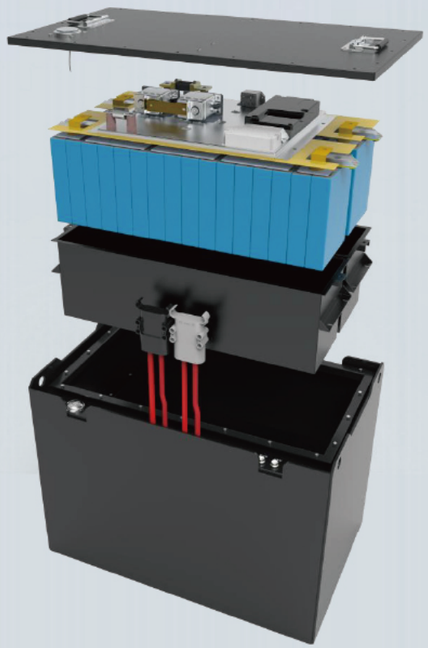
2. Actual performance may vary according to local conditions. Only authorized personnel are allowed to operate or make adjustments to the batteries.
3.We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice.

More about SI-SWAY Lithium-ion Batteries

Quality and safety are our top priorities. In addition, our professional R&D team has developed innovative solutions that offer a range of other benefits.

- Maintenance free
- Fast charge
- Long life
- Ultra safe



Intelligent Design

- Built-in BMS
  For cell balancing and advanced battery management.
- 4G module included
  For software upgrading, remote monitoring and diagnosing.
- Control panel included
  Showing all critical battery functions in real-time, voltage, current, and remaining charging time and fault alarm.
- REMA plug
  Separate high current charging plug with integrated blocking system for unintended startup and transfering the signal.

Battery Management System (BMS)

The built-in BMS uses automotive-grade components to ensure safety, quality and high energy density, providing a fully optimised solution for demanding industrial applications.

The BMS software ensures that the battery delivers peak performance when in use, provides longer run times between charges, maximises overall battery life and ensures good communication between the charger, battery and user.

The BMS can offer:

All-time Cell Balancing and Battery Management.

The intelligent balancing strategy allows balancing between individual cells. The BMS can maintain the consistency of the battery at all times during operation, maximising battery efficiency and improving battery life.

Battery Real-time Monitoring and Communication Through CAN.

Monitoring of cell voltage, current and battery temperature so that any movement outside the normal range will disconnect the cell or the entire battery.

Fault Alarm and Safety Protection.

In the event that the battery level drops below 10%, an audible warning will be triggered, prompting the user to charge the battery in the event of an unexpected stop at a distance from the charging station. In the event of any other faults, such as over/under voltage, low/over temperature, or over current, the battery must be made safe. The safety of our customers is of the utmost importance to us.

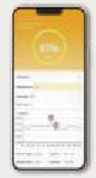
4G Module (for Forklift Batteries)

SI-SWAY smart 4G module can realize remote monitoring in realtime, even in different countries. If some faults occur, you can get an alarm in time. Once the faults can not be solved, you can get a remote diagnosis online from us to solve the problems as soon as possible.

With OTA (over the air), remote software upgrades can solve software problems in time, and GPS can lock the forklift automatically if necessary.

Smart On-line Cloud Platform

TIPS



The integrated battery system management information includes details on battery quantities, real-time data and status, positions and trajectories, alarm record, and other relevant data. One device can monitor all the batteries, regardless of location, offering convenient and straightforward management.

Original Chargers for Forklift

SI-SWAY professional charger enables optimal battery performance and the best communication between the charger and the battery.

Intelligent Charging Management

To use the SI-SWAY charger, the battery management system (BMS) can control the charging current according to different temperatures and SOC of the batteries.

SI-SWAY s intelligent BMS ensures the safety of the battery and improves the charging efficiency.

When the battery is at a low voltage, the battery can be charged at low current to ensure battery safety.

When the battery is less than 10%, it will beep to prompt for charging.

- Over-temperature protection
- Short-circuit protection
- Anti-reverse connection function
- Over-charge protection
- Smart display
- Current limit function
- Automatic power off
- Over-current protection
- Over-voltage protection
- Timing protection
- Wide voltage operation
- Constant current constant voltage

How to Charge?

Easy and safe

During the charging process, power to the lift is disconnected to prevent drive off.

01 Drive to the forklift battery station

Drive to the truck battery station, switch off the truck, connect the charger cable and apply the parking brake.

02 Automatically monitor

The charger and forklift will automatically monitor whether the safe environment and battery condition are suitable for charging, and if it is well, the charger and forklift will automatically start charging.

03 Fully charged

When the battery is fully charged, charging will stop automatically.

Smart Display

Once connected, the charger displays the battery status, allowing the operator to leave the truck and rest between shifts.

Where do I lithium-ion batteries charge?

Flexible

- Batteries can be charged in the truck.
- There is no need for frequent battery changes or a battery storage room.Charging stations can be located anywhere in the facility to encourage proper charging by the operator. Eliminates the need for a charging room and associated ventilation.

TIPS

Compare to the charging location for lead-acid batteries:

Lead-acid batteries need extra batteries and battery storage room for swapping.

And they also need a specific charging room with a ventilation system to avoid noxious gas when charging.

Products

Retro t Your Fleet to Lithium-ion Batteries.

Automotive-grade Battery Manufacturing

To build a world-renowned lithium-ion battery brand and provide superior solutions to meet your needs.

Retro t Your Fleet to Lithium-ion Batteries.

LiFePO4 Batteries for AGVs and AMRs

Always suf cient power for your AGVs and AMRs.

The SI-SWAY lithium batteries, which are maintenance-free, safe and high-performing, offer an effective solution for enhancing automation efficiency and productivity in a range of industrial contexts, including manufacturing, warehousing and logistics.

Key Features

Longer Life
Durable and reliable with up to 10 years design life and 3,500 + cycle life

Safe Operation
Equipped with multiple built-in BMS protections for peace of mind

Zero Maintenance
No water lling, no frequent battery replacements, no acid, and no corrosion

High Performance
Support fast charging and high-power output to meet working needs

Eco-Friendly
Non-toxic, non-polluting, and environmentally friendly.

Speci cations

Model	Nominal Voltage	Nominal Capacity	Nominal Energy	Cycle Life	Dimensions (L ×W ×H)	Weight lbs. (kg)	Continuous Discharge Current	Peak Discharge Current	Casing Material	IP Rating
SW4820	51.2 V	20 Ah	1.536 kWh	3,500 times	300 x 200 x 185(mm)	36.38±2.2 lbs (16.5±1 kg)	30 A	60A (120 S)	Steel	IP65
SW4830		30 Ah	1.536 kWh		330 x 200 x 181.5(mm)	28.66±2.2 lbs (13±1 kg)	30 A	60A (120 S)		IP65

Working Temperature Range	Charge	Discharge	Storage (1 month)	Storage (1 year)
	-4°F~131°F (-20°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	32°F~95°F (0°C~35°C)

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Retro t Your Fleet to Lithium-ion Batteries.

Reliable Power for Most Aerial Lift Brands

SI-SWAY lithium-ion batteries deliver consistent, reliable power for Aerial Lifts.

An advanced battery solution for the majority of leading brands of aerial work platforms. These solutions can be applied to the following well-known aerial work platform brands:

Zoomlion	Genie	Mantall	Noble
Xcmg	JLG	Runshare	Eastmanhm
Dingli	Sunward	Skyjack	Airman
LGMG	Sany	Manitou	Sivge
Sinoboom	Haulotte	Emis	More>
Snorkel/Xtre me	LiuGong		

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Which LiFePO4 Battery is Suitable for Your Aerial Work Platforms?

One Stop for All of Your Battery Needs!

We make 24, 48, and 72 volt systems to cover small and large platform Electric Scissor Lifts:

Small-platform

24 V Battery System

For small-platform electric scissor lifts

Large-platform

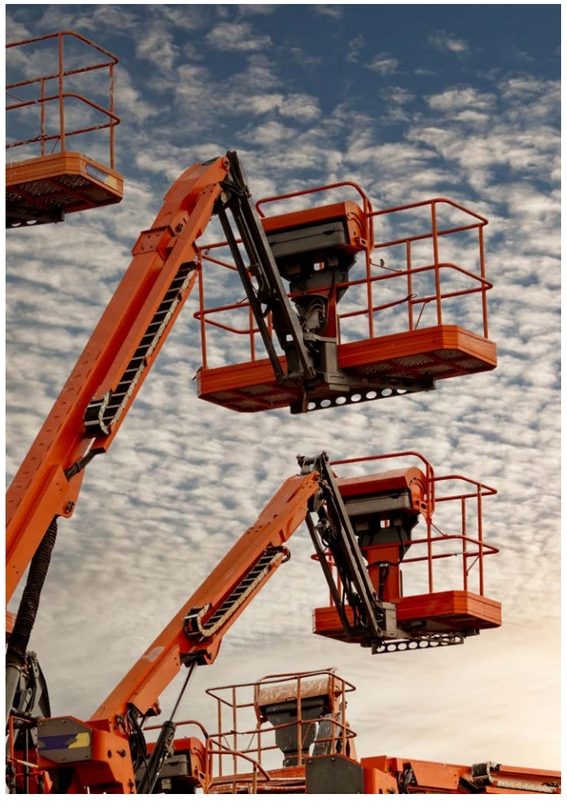
48 V / 72 V Battery System

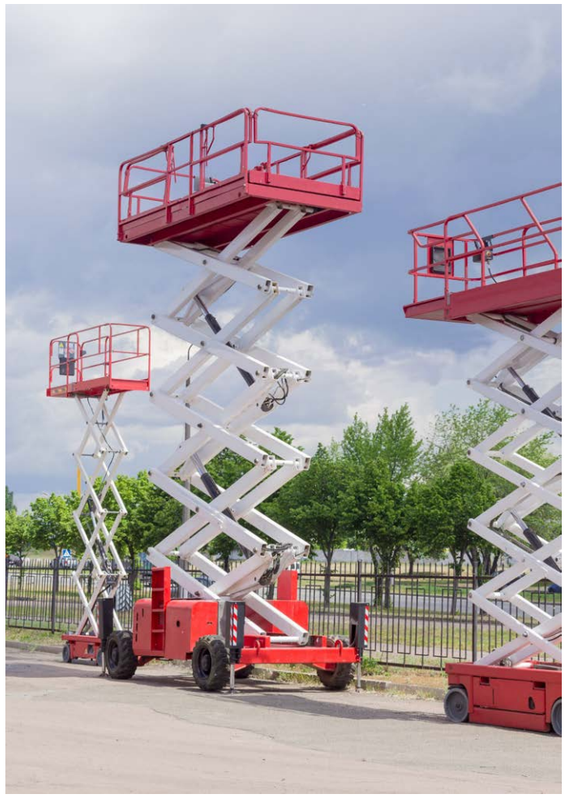
For large-platform electric scissor lifts

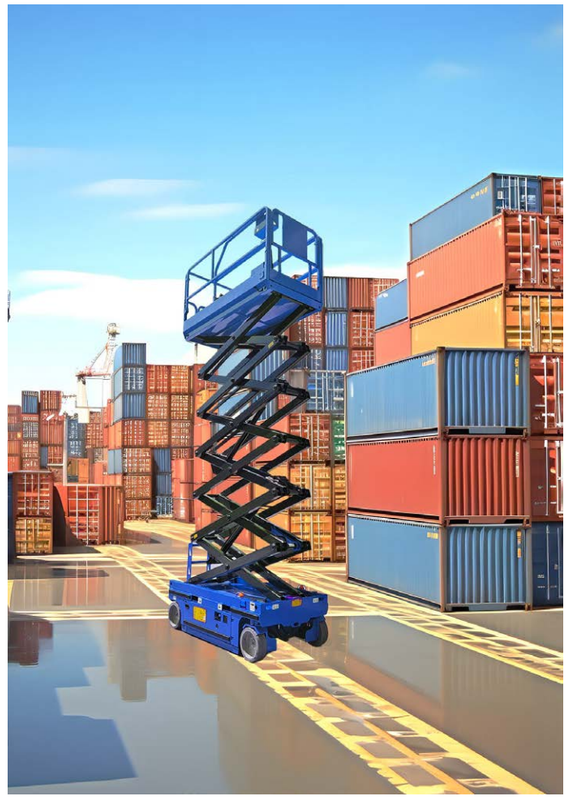
LiFePO4 Batteries for Aerial Work Platforms

Switch to new technology, lithium drop-in replacements for lead-acid batteries.

- A full range of lithium-ion battery to power your aerial lifts.
- Maximum uptime and exible lifting.







An Ideal Lithium-ion Solution

Ef cient

- The product offers high, consistent performance without the voltage drop that can occur at the end of the cycle.
- Reduce unplanned downtime with fast, ef cient, opportunity charging.
- 10 years design life - a worthwhile upgrade.

Green and Stable

- No acid spills, no noxious gas emissions.
- More thermal & chemical stability.
- Good for you and the planet.

Flexible and Worry-free

- Zero maintenance, no need for water top-ups or electrolyte checks.
- No battery swapping, reduce related accidents and resulting employee injuries.
- No need for speci c charging room.

Save Up to

70%

Expenses in 5 Years

Why SI-SWAY LiFePO4 Batteries

5 Year Warranty

5 year warranty and timely technical support.

Steady Output

LiFePO4 batteries keep a very steady power output, They are suitable for applications.

Heating Function (Optional)

Heating function to warm up the battery at a low temperature for charging and discharging.

Long Life

3,500+ cycle life outperforms traditional batteries.

Intelligent BMS

All-time cell balancing and multiple built-in protections, including short circuit protection, high temperature protection, high voltage protection and so on to get better performance and longer life.

Speci cations

Technical Speci cations							Discharge Current		General	
Model	Nominal Voltage	Nominal Capacity	Stored Energy	Cycle Life	Dimensions (L*W*H)	Weight lbs. (kg)	Continuous Discharge	Maximum Discharge	Casing Material	IP Rating
24 V System										
SW24105	25.6 V	105 Ah	2.69 kWh	>3,500 times	350×250×262 (mm)	56 lbs. (25.6 kg)	120 A	180 A (20 S)	Steel	IP65
SW24120		120 Ah	3.07 kWh		518×185×250 (mm)	66.14 lbs. (30 kg)	120 A	250 A (30 S)		IP65
SW2416		160 Ah	4.09 kWh		524×360×267 (mm)	90.39 lbs. (41 kg)	150 A	250 A (30 S)		IP65
SW24210		210 Ah	5.38 kWh		488×350×261 (mm)	105 lbs. (47.8 kg)	150 A	250 A (30 S)		IP65
SW24420		420 Ah	10.75 kWh		660×443×383 (mm)	243 lbs. (110 kg)	210 A	350 A (30 S)		IP65
48 V System										
SW48105	51.2V	105 Ah	5.38 kWh	>3,500 times	524×360×267 (mm)	105 lbs. (47.8 kg)	150 A	250 A (30 S)	Steel	IP65
SW48210		210 Ah	10.75 kWh		524×360×267 (mm A/B BOX)	212 lbs. (96 kg)	200 A	350 A (30 S)		IP65
72 V System										
SW72280	76.8 V	280 Ah	21.54 kWh	>3,500 times	750×350×348 (mm A/B BOX)	105 lbs. (47.8 kg)	250 A	350 A (30 S)	Steel	IP65

Working Temperature Range	Charge	Discharge	Storage (1 month)	Storage (1 year)
	-4°F~131°F (-20°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	32°F~95°F (0°C~35°C)

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Retro t Your Fleet to Lithium-ion

Ideal Power for the Top Brands

SI-SWAY lithium batteries are more reliable and will provide unmatched power for many oor cleaning machines.

An advanced battery solution for the majority of leading brands of aerial work platforms. These solutions can be applied to the following well-known aerial work platform brands:

Nil sk/Advance	IPC	Viper	PowerBoss
Tennant	Comac	Clarke	Eureka
Nil sk	FIMAP	ICE	Betco
Hako	Dulevo	NSS	More>
Kärcher	TVX	Minuteman	

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Which LiFePO4 Battery is Suitable for Your Floor Cleaning Machines?

We make 24, 36, and 48 volt systems to cover most Floor Cleaning Machines.

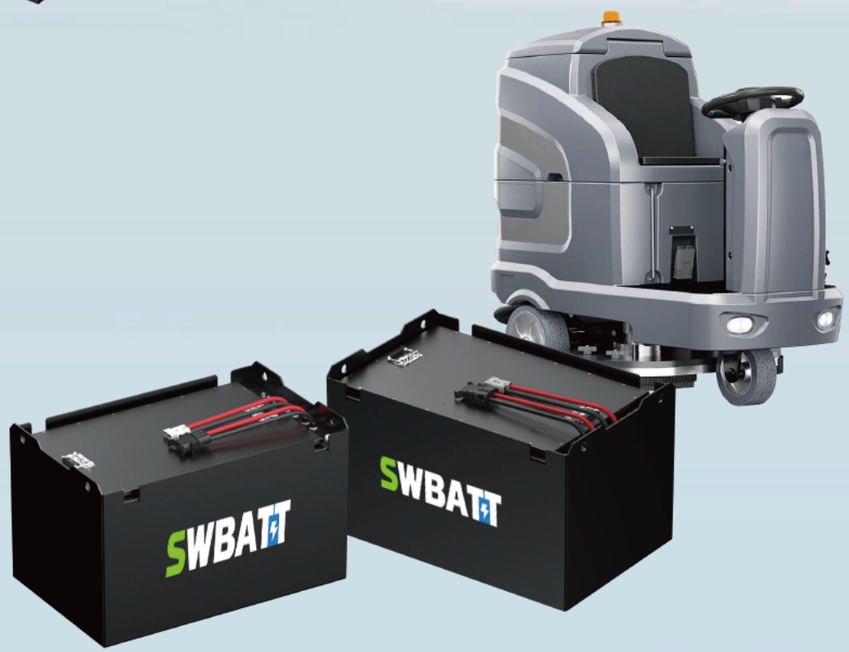
One Stop for All of Your Battery Needs!

24 V Battery System

For Walk Behind Sweepers & Scrubbers

36 V / 48 V Battery System

For Ride-On Sweepers and Scrubbers



LiFePO4 Batteries for Floor Cleaning Machines

Switch to new technology, lithium drop-in replacements for lead-acid batteries.

- Superior performance from these safe, durable batteries.
- Keep your machines always ready to go!

More Time Cleaning, Less Time Worrying

Flexible and Worry-free

- Much lighter than the traditional battery.
- No frequent battery swapping.
- No Memory Effect and that an Opportunity Charge can be made at any time

Stable and Sustained

- No acid spills, no noxious gas emissions.
- More thermal & chemical stability.
- High level of consistent performance without any sudden power fluctuations.

A Good Investment

- Zero maintenance, to save labor and maintenance costs.
- Mitigate unplanned downtime with rapid, effective, and targeted charging solutions.
- No battery swapping, reduce related accidents and resulting employee injuries.
- Up to 10 years design life reduces overall battery investment.

Save Up to

70%

Expenses in 5 Years

Why SI-SWAY LiFePO4 Batteries

5 Year Warranty

5 year warranty and timely technical support.

Steady Output

LiFePO4 batteries is their ability to maintain a consistent and reliable power output. They are designed for use in specific applications.

Heating Function (Optional)

Heating function to warm up the battery at a low temperature for charging and discharging.

Long Life

3,500 + cycle life outperforms traditional batteries.

Intelligent BMS

All-time cell balancing and multiple built-in protections, including short circuit protection, high temperature protection, high voltage protection and so on to get better performance and longer life.

Speci cations

Technical Speci cations							Discharge Current		General	
Model	Nominal Voltage	Nominal Capacity	Stored Energy	Cycle Life	Dimensions (L*W*H)	Weight lbs. (kg)	Continuous Discharge	Maximum Discharge	Casing Material	IP Rating
24V System										
SW2460	25.6 V	60 Ah	1.54 kWh	>3,500 times	307×168×226(mm)	33 lbs. (15 kg)	60 A	180 A (20 S)	Steel	IP65
SW24100		100 Ah	2.56 kWh		338×307×235(mm)	56 lbs. (25.3 kg)	100 A	180 A (20 S)		IP65
SW24150		150 Ah	3.84 kWh		440×330×260(mm)	85.5 lbs. (38.8 kg)	100 A	180 A (20 S)		IP65
SW24210		210 Ah	5.38 kWh		488×350×261(mm)	101 lbs. (46 kg)	100 A	180 A (20 S)		IP65
36 V System										
SW38100	38.4V	100 Ah	3.84 kWh	>3,500 times	385×338×245(mm)	75 lbs. (34 kg)	80 A	180 A (20 S)	Steel	IP65
SW38150		150 Ah	5.76 kWh		500×410×226(mm)	128 lbs. (58 kg)	80 A	180 A (20 S)		IP65
SW38210		210 Ah	8.06 kWh		600×350×262(mm)	143 lbs. (65 kg)	80 A	180 A (20 S)		IP65
48V System										
SW48460	51.2V	460Ah	23.55 kWh	>3,500 times	970*410*435(mmA/B BOX)	242.4 lbs. (110kg)	150 A	250 A (30 s)	Steel	IP65

Working Temperature Range	Charge	Discharge	Storage (1 month)	Storage (1 year)
	-4°F~131°F (-20°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	32°F~95°F (0°C~35°C)

Note:
1. All pictures shown are for reference only and data are based on SI-SWAY standard test procedures.
2. Actual performance may vary according to local conditions. Only authorized personnel are allowed to operate or make adjustments to the batteries.
3.We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice.

SI-SWAY,For One-stop New Energy Solutions

SI-SWAY New Energy is dedicated to the R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions.

SI-SWAY offers a comprehensive range of lithium-ion batteries, with over 15 years of experience in manufacturing renewable energy and battery systems. Our products are suitable for a wide variety of applications, including low-speed vehicles, industrial batteries for material handling equipment, and renewable energy storage systems for residential, commercial, industrial, vehicle-mounted, and marine use. The factory has successfully attained ISO certification for its quality management system, and the company's products have also obtained CE, UL, UN38.3, and MSDS certification in Europe and the United States.

As a leading manufacturer of power lithium batteries, we are committed to creating greater value for our domestic and international customers through the provision of high-quality products and services, and to making a significant contribution to the global renewable energy sector.

R&D and Manufacturing Highlights

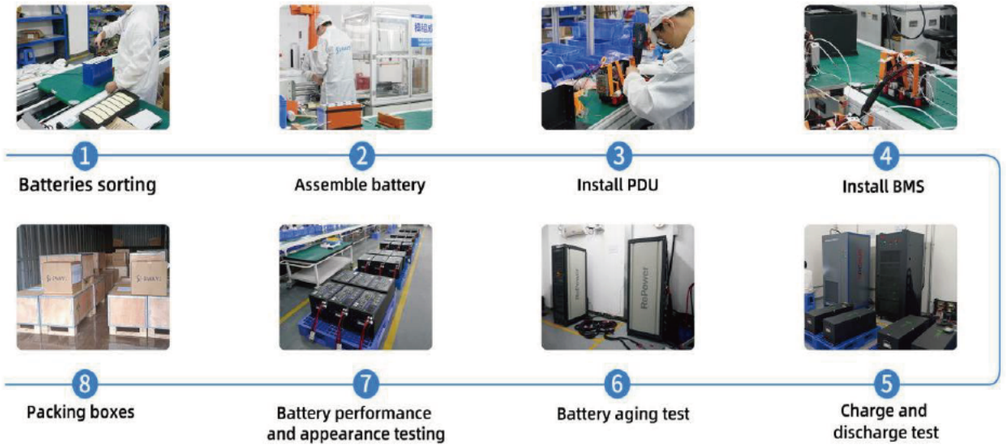
As a result of these investments, SI-SWAY is capable of end-to-end integrated deliver y makeing our products out-perform the industry norms.

- All-round testing.
- Integrated design.
- Fast response to customer.
- CE,UL,UN38.3,MSDS.
- QC system.
- Persistent technology innovation.
- Fully automatic production line.
- ISO9001 Factory Quality Management.

Global Sales and Service Network System

- Timely Delivery.
- Hassle-free After-sales Service.
- Fast Response Technical Support.

SI-SWAY has comprehensively unfolded its overseas market layout to ensure the localization of R&D, manufacturing, marketing and service, becoming one of your most reliable and valuable partners.



Upgrading to New Technology, with Our Turnkey Solutions.

With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:

Low-speed Vehicle Batteries including golf carts and sightseeing cars;

Vehicle-Mounted Energy Storage Systems & Batteries including RV and truck energy storage and air conditioning systems, off-grid solar systems for RV, as well as power batteries for electric motorcycles;

Residential Energy Storage Systems & Portable Power Units including home storage and portable energy storage products, as well as off-grid energy storage (for forest cabin, island homes without electricity, etc.);

IIndustrial Batteries including forklifts, aerial work platforms and floor cleaning machines;

Marine Energy Storage Systems & Batteries including trolling motors, fish finders, other off-grid energy storage systems for marine, and marine power systems;

Commercial & Industrial Energy Storage Systems including diesel generator power micro-grid energy storage systems (for tower cranes, air compressors, mixers, crushers, etc);

Chargers for forklifts, aerial work platforms, floor cleaning machines, golf carts and various marine batteries.

Part of the honour certificate