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ROYPOW Technology Co., Ltd.

Tel: +86 (0)752 3888 690

Email: sales@roypowtech.com
service@roypowtech.com
marketing@roypowtech.com

Web: www.roypowtech.com

Add: ROYPOW Industrial Park, No.16, Dongsheng South Road,
Chenjiang Street, Zhongkai High-Tech District, Huizhou City,
Guangdong Province, China

ROYPOW (Europe) Technology B.V.

Email: sales@roypoweurope.com

Tel: +31 702 001 114

Web: www.roypoweurope.com

Add: Seattleweg 1, 3195 ND, Pernis, The Netherlands

ROYPOW Australia Technology Pty Ltd

Email: sales@roypowtech.com.au

Tel: +61 29185 0814

Web: www.roypowtech.com.au

Add: Suite 803a, 18 Orion Road, Lane Cove, NSW, 2066, Australia

ROYPOW Battery Technology (Pty) Ltd

Email: sales.za@roypowtech.com

Tel: +27 71 434 3769

Add: Unit 8 Bridgeway Business Park 434 Sam Green Rd,
Rietfontein 63-Ir, Germiston, 1401 Johannesburg, South Africa



ROYPOW (USA) Technology Co., Ltd.

Tel: +1 512 688 5555 (Texas Office)
+1 626 295 2527 (California Office)

Email: sales@roypowusa.com
Service Support: +1 626 269 0547
Email: service@roypowusa.com

Web: www.roypowusa.com

Head Office: 16233 Arrow Hwy Bldg B, Irwindale, CA 91706, USA
Texas Office: 2350 Campbell Creek Blvd #100 Richardson, TX 75082, USA
Florida Office: 277 Douglas Avenue, Unit 1004, Altamonte Springs, FL 32714, USA
Indiana Office: 5545 W Raymond St, Ste H Indianapolis, IN 46241, USA

ROYPOW Technology UK Limited

Tel: +44 (0) 7592 198 258

Email: sales@roypow.co.uk

Add: 291 Brighton Road, South Croydon, United Kingdom, CR2 6EQ, UK

ROYPOW Technology GmbH

Email: sales@roypowtech.com
ping.wei@roypowtech.com

Add: Besselstraße 24, 68219 Mannheim, Germany

ROYPOW株式会社

Tel: +81 090 7092 6969

Email: info@roypow.co.jp

Web: www.roypow.co.jp

Add: 横浜市神奈川区ニッ谷町 2-8 加瀬ビル 175 3F



LiFePO₄ Batteries

for Material Handling Equipments

Drop-in lithium-ion
for lead-acid
alternatives



✉ sales@roypowtech.com www.roypowtech.com

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ROYPOW
Your Trusted Partner



New Technology. Create Great Value for Your Business







Converting from lead-acid to lithium-ion is easy and cost-effective and increases the productivity of the fleets and the operator.

Retrofit Your Fleet to Lithium-ion Batteries.



Benefits of Lithium-ion Batteries

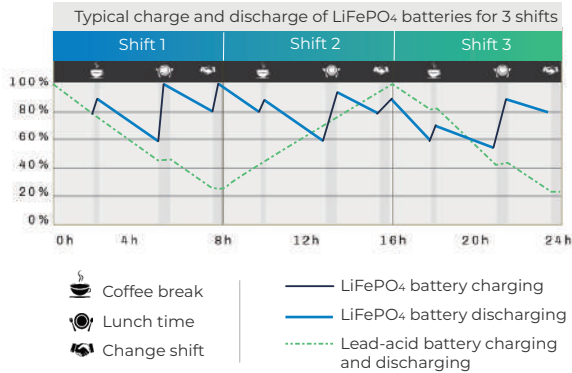


Lead-acid	LiFePO4 battery	
 3 years design life	 up to 10 years design life Longer life 3 to 4 times lead-acid lifespan	<ul style="list-style-type: none"> ✓ Reduces overall battery investment ✓ Eco-friendly ✓ Minimize the need for spares
 Frequent maintenance	 0 maintenance no need for regular filling of distilled water and electrolyte No maintenance	<ul style="list-style-type: none"> ✓ 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	<ul style="list-style-type: none"> ✓ Durable and reliable ✓ Reduces maintenance and labor costs ✓ Quality guarantee

Reduce Downtime, Increase Equipment Availability

In day-to-day operations, the battery can be charged even during short breaks, such as taking a rest or changing shifts, effectively increasing 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

Whether you have a single-shift or a large fleet working 24/7, fast charge is one of the most important advantages.



TIPS

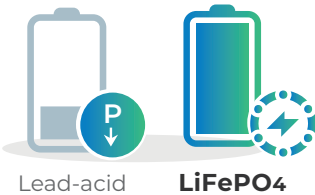
Why choose LiFePO₄ batteries for Forklifts?

There are a few lithium-ion chemistries to choose from. ROYPOW uses LFP or Lithium Iron Phosphate, one of the most thermally stable and safe lithium-ion chemistries for Forklifts.

LFP offers longer life, is more energy-dense, more stable, is more compact, and weighs less than lead-acid. Our battery packs are sealed units requiring no daily or weekly watering and no maintenance. LFP is ideal for batteries used in Forklifts.

Consistent Power

Lithium-ion batteries deliver consistently high performance, which maintains greater productivity even toward the end of a shift.



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

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



Small Investment, Big Return

Converting your battery to lithium-ion may require a higher initial investment, but its ongoing savings on energy, equipment, labour and downtime can give you a more cost-effective bill in opposite.

The LiFePO₄ batteries can offer you...









- ✓ Longer life reduces overall battery investment.
- ✓ No maintenance saves labor and maintenance costs.
- ✓ 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 ROYPOW LiFePO₄ batteries with lead-acid batteries.

Purchases over 5 Years	Lead-acid Battery	LiFePO ₄ Battery
Battery cost	 5yr 	
Maintenance	 5yr	/
Electricity waste	 5yr	/
Installation	 5yr 	
Shipping	 5yr 	

Remark: Actual costs may vary according to local conditions.

ROYPOW Batteries with Smart & Integrated Systems

Provide exceptional performance to get the job done and improve your productivity, which means fewer hours of unplanned downtime and more productive hours on your work.

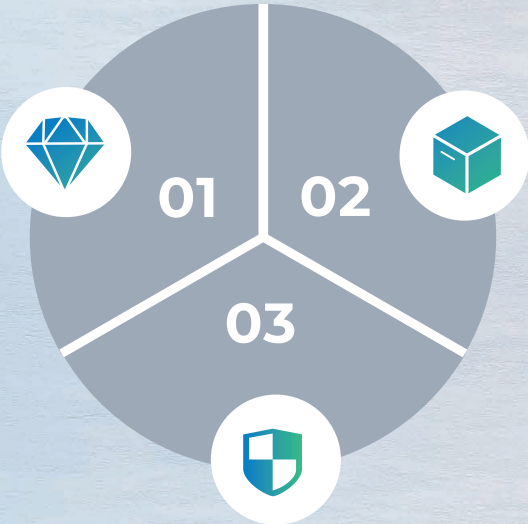
0 Maintenance
Up to **3,500+** Cycle Life

5_{yr} Warranty
Up to **10**_{yr} Design Life



Durable

ROYPOW 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 for remote monitoring of the battery SOC, temperature, as well as diagnosis and remote software upgrades. Solve software problems in real time.

Built-in Protection

Intelligent BMS is for automatic cell balancing and advanced battery management. The LiFePO₄ batteries have greater thermal and chemical stability.

Automotive-grade Battery Manufacturing

To build a world-renowned lithium-ion battery brand and provide better solutions for you.



An Unmatched Power with High Compatibility for Multi-shift Applications.

Powerful and reliable, our batteries boost efficiency in material handling. Suitable for applications like logistics, manufacturing, daily goods transporting, etc.



ROYPOW 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				

Disclaimer: The information above is intended only to describe that products of ROYPOW are applicable to products of brands above under specific circumstances. It should not be regarded as any illegal use of third-party brands and trademarks. You should not infer that RoyPow has established or has any agency, employment, partnership or joint venture relationship with the companies above.

Which LiFePO₄ Battery is Suitable for Your Forklifts

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



For Class **1** Forklifts

**36 V, 48 V, 72 V,
80 V, 90 V Battery Systems**

For Counterbalance Forklifts

For Class **2** Forklifts

36 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!**

LiFePO₄ Batteries for Forklifts

Lithium drop-in replacements for lead-acid batteries.

- ✓ Retrofit your fleet to lithium-ion batteries and keep your equipment running all day long!
- ✓ Power your equipment up to 3 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.

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.


Green and Stable


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


Save Up to
70%
Expenses in 5 Years


Why ROYPOW LiFePO₄ Batteries


Retrofit Your Fleet to Lithium-ion Batteries.


 **5 Year Warranty**
5 year warranty brings you hassle-free experience.


 **Steady Output**
LiFePO₄ batteries keep a steady power output, which will not dramatically drop like lead-acid batteries.


 **Fire Safety**
Efficient and eco-friendly, the built-in hot aerosol fire extinguisher can quickly help with the fire fighting and reduce fire hazards for peace of mind.


 **Heating Function (Optional)**
The optional heating function can warm up the battery for optimal charging even at a low temperature of -20 °C.

 **4G Module**
For product position tracking, battery health monitoring, and life cycle management.

 **3,500+ Cycle Life**
ROYPOW LiFePO₄ batteries last so long that they outperform traditional batteries.

 **SoC Meter**
Display the battery's state of charge, status and malfunctioning information in real time.

 **Anti-walking Function**
It can prevent your equipment from a sudden start or moving during charging.

 **Built-in Battery Management System (BMS)**
The smart and reliable BMS can ensure a better performance, and deliver longer battery run time and lifespan.

 **IP65 Protection**
Rated at IP65 protection grade, ROYPOW batteries are waterproof and dust-proof to maintain stable performance under all-weather working conditions.



Specifications



Model	Nominal Voltage	Nominal Capacity	Nominal Energy	Cycle Life	Dimensions (L*W*H)	Weight lbs. (kg)	Charge Current	Continuous Discharge Current	Peak Discharge Current	Casing Material	IP Rating
24 V System											
F24160	25.6 V	160 Ah	4.10 kWh	>3,500 times	24.57 x 8.27 x 24.69 inch (624 x 210 x 627 mm)	198.42 lbs (90 kg)	50 A	160 A	480 A (30 S)	Steel	IP65
F24105		105 Ah	2.69 kWh		24.57 x 8.27 x 24.69 inch (624 x 210 x 627 mm)	198.42 lbs (90 kg)	80 A	105 A	350 A (30 S)		
F24210		210 Ah	5.38 kWh		24.57 x 8.27 x 24.69 inch (624 x 210 x 627 mm)	220.46 lbs (100 kg)	105 A	210 A	420 A (30 S)		
F24280		280 Ah	7.17 kWh		24.57 x 8.27 x 24.69 inch (624 x 210 x 627 mm)	242.5 lbs (110 kg)	140 A	280 A	500 A (30 S)		
F24315		315 Ah	8.06 kWh		25.59 x 13.78 x 18.50 inch (650 x 350 x 470 mm)	286.60 lbs (130 kg)	157 A	315 A	500 A (30 S)		
F24420		420 Ah	10.75 kWh		31.50 x 13.78 x 18.50 inch (800 x 350 x 470 mm)	352.74 lbs (160 kg)	200 A	420 A	500 A (30 S)		
		420 Ah	10.75 kWh		27.76 x 12.80 x 23.23 inch (705 x 325 x 590 mm)	496.04 lbs (225 kg)	200 A	420 A	500 A (30 S)		
F24560		560 Ah	14.34 kWh		30.71 x 16.73 x 18.50 inch (780 x 425 x 470 mm)	396.83 lbs (180 kg)	200 A	420 A	700 A (30 S)		
F24608		608 Ah	15.56 kWh		33.46 x 13.78 x 26.38 inch (850 x 350 x 670 mm)	462.97 lbs (210 kg)	200 A	420 A	700 A (30 S)		
36 V System											
F36560	38.4 V	560 Ah	21.504 kWh	>3,500 times	30.71 x 16.73 x 22.44 inch (780 x 425 x 570 mm)	617.29 lbs (280 kg)	200 A	420 A	700 A (30 S)	Steel	IP65
		560 Ah	21.504 kWh		31.50 x 29.92 x 13.78 inch (800 x 760 x 350 mm)	551.16 lbs (250 kg)	200 A	420 A	700 A (30 S)		
F36608		608 Ah	23.35 kWh		30.71 x 16.73 x 22.44 inch (780 x 425 x 570 mm)	617.29 lbs (280 kg)	200 A	420 A	700 A (30 S)		
		608 Ah	23.35 kWh		31.50 x 24.61 x 16.54 inch (800 x 625 x 420 mm)	551.16 lbs (250 kg)	200 A	420 A	700 A (30 S)		
F36690		690 Ah	26.50 kWh		35.43 x 16.73 x 22.44 inch (900 x 425 x 570 mm)	683.43 lbs (310 kg)	200 A	420 A	700 A (30 S)		
48 V System											
F48210	51.2 V	1210 Ah	10.75 kWh	>3,500 times	31.50 x 14.37 x 16.14 inch (800 x 365 x 410 mm)	297.62 lbs (135 kg)	105 A	210 A	420 A (30 S)	Steel	IP65
F48280		280 Ah	14.33 kWh		30.71 x 16.73 x 18.50 inch (780 x 425 x 470 mm)	396.83 lbs (180 kg)	140 A	280 A	500 A (30 S)		
F48315S		315 Ah	16.1 kWh		27.56 x 22.05 x 18.11 inch (700 x 560 x 460 mm)	507.06 lbs (230 kg)	157 A	350 A	500 A (30 S)		
F48420		420 Ah	21.50 kWh		37.40 x 13.78 x 22.44 inch (950 x 350 x 570 mm)	661.39 lbs (300 kg)	200 A	350 A	500 A (30 S)		
		420 Ah	21.50 kWh		31.50 x 24.02 x 18.11 inch (800 x 610 x 460 mm)	617.29 lbs (280 kg)	200 A	350 A	500 A (30 S)		
F48460		460 Ah	23.55 kWh		32.28 x 25.50 x 18.50 inch (820 x 650 x 470 mm)	639.34 lbs (290 kg)	200 A	350 A	700 A (30 S)		
		460 Ah	23.55 kWh		31.50 x 16.73 x 22.44 inch (800 x 425 x 570 mm)	650.36 lbs (295 kg)	200 A	350 A	700 A (30 S)		
F48560		560 Ah	28.67 kWh		32.28 x 30.71 x 18.11 inch (820 x 780 x 460 mm)	683.43 lbs (310 kg)	200 A	350 A	700 A (30 S)		
		560 Ah	28.67 kWh		35.43 x 31.89 x 13.78 inch (900 x 810 x 350 mm)	683.43 lbs (310 kg)	200 A	350 A	700 A (30 S)		
		560 Ah	28.67 kWh		35.43 x 16.73 x 22.44 inch (900 x 425 x 570 mm)	771.62 lbs (350 kg)	200 A	350 A	700 A (30 S)		
		F48690	690 Ah		35.33 kWh	37.80 x 16.73 x 22.83 inch (960 x 425 x 580 mm)	837.76 lbs (380 kg)	200 A	350 A		
690 Ah			35.33 kWh		34.65 x 29.92 x 18.50 inch (880 x 760 x 470 mm)	749.57 lbs (340 kg)	200 A	500 A	700 A (60 S)		

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

Specifications



Model	Nominal Voltage	Nominal Capacity	Nominal Energy	Cycle Life	Dimensions (L*W*H)	Weight lbs. (kg)	Charge Current	Continuous Discharge Current	Peak Discharge Current	Casing Material	IP Rating
72 V System											
F72420	70.4 V	420 Ah	30.9 kWh	>3,500 times	31.50 x 14.57 x 22.44 inch (800 x 370 x 570 mm)	903.90 lbs (410 kg)	200 A	350 A	500 A (30 S)	Steel	IP65
F72460	73.6 V	460 Ah	33.86 kWh		27.56 x 16.73 x 22.44 inch (700 x 425 x 570 mm)	925.94 lbs (420 kg)	200 A	350 A	700 A (30 S)		
		460 Ah	33.86 kWh		25.59 x 24.80 x 18.50 inch (650 x 630 x 470 mm)	947.99 lbs (430 kg)	200 A	350 A	700 A (30 S)		
F72560	76.8 V	560 Ah	41.22 kWh		29.92 x 16.73 x 22.44 inch (760 x 425 x 570 mm)	1102.31 lbs (500 kg)	200 A	350 A	700 A (30 S)		
		560 Ah	41.22 kWh		30.71 x 24.80 x 18.50 inch (780 x 630 x 470 mm)	1124.36 lbs (510 kg)	200 A	350 A	700 A (30 S)		
80 V System											
F80420	80 V	420 Ah	33.6 kWh	>3,500 times	35.43 x 24.80 x 22.44 inch (900 x 630 x 570 mm)	881.85 lbs (400 kg)	200 A	350 A	700 A (60 S)	Steel	IP65
F80460		460 Ah	36.8 kWh		32.28 x 24.61 x 22.83 inch (820 x 625 x 580 mm)	881.85 lbs (400 kg)	200 A	350 A	500 A (60 S)		
F80560		560 Ah	44.8 kWh		32.28 x 27.17 x 22.44 inch (820 x 690 x 570 mm)	1058.22 lbs (480 kg)	200 A	350 A	700 A (30 S)		
		560 Ah	44.8 kWh		31.89 x 28.74 x 22.44 inch (810 x 730 x 570 mm)	1080.27 lbs (490 kg)	200 A	350 A	700 A (30 S)		
F80608		608 Ah	48.64 kWh		35.43 x 31.89 x 22.44 inch (900 x 810 x 570 mm)	1102.31 lbs (500 kg)	200 A	420 A	700 A (30 S)		
F80690		690 Ah	55.2 kWh		38.58 x 31.89 x 22.44 inch (980 x 810 x 570 mm)	1025.15 lbs (465 kg)	200 A	420 A	700 A (30 S)		
		690 Ah	55.2 kWh		31.89 x 30.71 x 22.44 inch (810 x 780 x 570 mm)	1201.52 lbs (545 kg)	200 A	420 A	700 A (30 S)		
F80840		840 Ah	67.2 kWh		39.37 x 32.28 x 22.44 inch (1000 x 820 x 570 mm)	1444.03 lbs (655 kg)	200 A	420 A	700 A (30 S)		
90 V System											
F90460	89.6 V	460 Ah	41.2 kWh	>3,500 times	39.37 x 24.41 x 23.62 inch (1000 x 620 x 600 mm)	1135.38 lbs (515 kg)	200 A	350 A	700 A (30 S)	Steel	IP65
F90608		608 Ah	54.48 kWh		35.43 x 27.17 x 22.44 inch (900 x 690 x 570 mm)	1212.54 lbs (550 kg)	200 A	200 A	600 A (60 S)		
Working Temperature Range			Charge -4°F~131°F (-20°C ~ 55°C)		Discharge -4°F~131°F (-20°C ~ 55°C)		Storage (1 month) -4°F~131°F (-20°C ~ 55°C)		Storage (1 year) 32°F~95°F (0°C~35°C)		

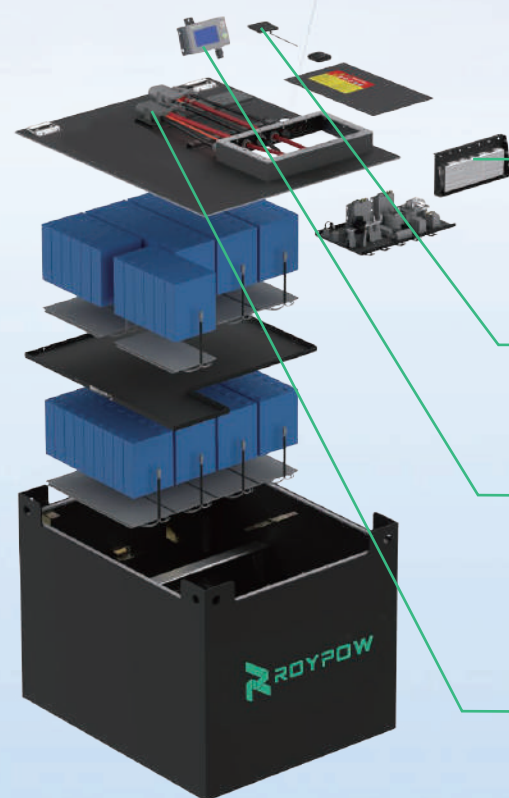
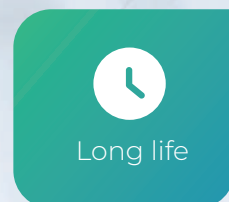
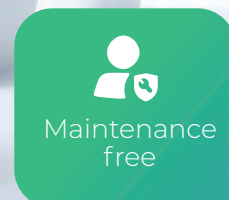
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More about ROYPOW Lithium-ion Batteries



Quality and safety always come first. Except those benefits, we also have intelligent design from our professional R&D team.



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 transferring the signal.

Battery Management System (BMS)

The built-in BMS is equipped with automotive-grade components assuring safety, top quality and high energy density to provide a fully optimized solution for demanding industrial applications.

BMS software ensures the battery provides peak performance when in operation, delivers longer run time between charges, maximizes the total battery lifespan and to communicate well between the charger, battery and users.



The BMS can offer:

All-time Cell Balancing and Battery Management.

Through the intelligent balancing strategy, balancing between individual cells can be realized. The BMS can keep the battery's consistency at all times when in operation, maximizing the battery efficiency and improving the battery's working life.

Battery Real-time Monitoring and Communication Through CAN.

Monitoring cell voltage, electric current and battery temperature so that any movement outside the normal range disconnects the cell or the entire battery.

Fault Alarm and Safety Protection.

When the battery is less than 10%, it will beep to prompt for charging in case of stopping somewhere far away from the charge station suddenly without notice. Over/under voltage, low/over temperature, over current or other faults will prompt to make the battery safe. Safety always comes first.

4G Module (for Forklift Batteries)



ROYPOW smart 4G module can realize remote monitoring in real time, 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



It provides integrated battery system management information, including battery quantities, real-time data and status, positions and trajectories, alarm record, etc. One phone or one computer can monitor all the batteries, no matter where you are, very easy and convenient to manage.

Original Chargers for Forklift

ROYPOW professional charger enables optimal battery performance and the best communication between the charger and the battery.



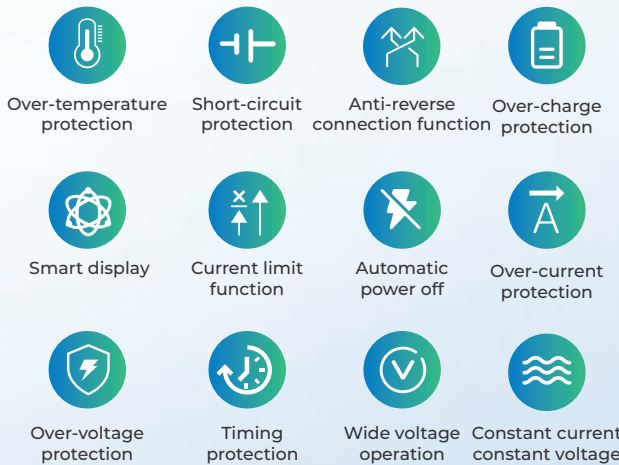
Intelligent Charging Management

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

ROYPOW's intelligent BMS ensures the safety of the battery and improves the charging efficiency.

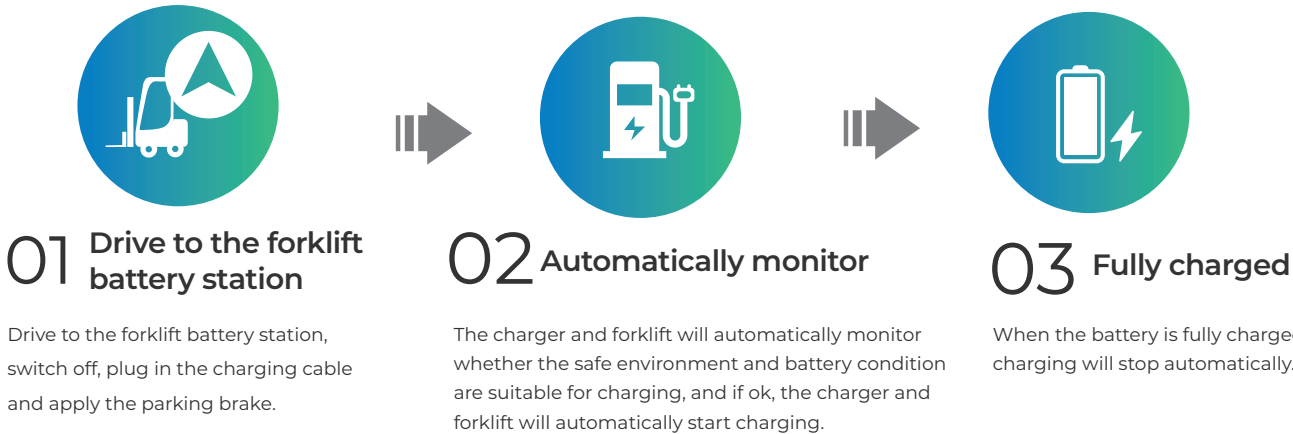
When the battery is at a low voltage, the battery can be charged at low current to ensure battery safety.

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



How to Charge? Easy and safe

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



Smart Display

Once the charger is connected, it will show the battery status, and the operator can leave the truck between shifts and have a rest.



Where do ROYPOW lithium-ion batteries charge? Flexible

- ✓ The batteries can be charged in the truck. No frequent battery swaps or battery storage room are required.
- ✓ The charging stations can be located anywhere in the facility that will promote proper charging by the operator. Eliminate charging room and related ventilation equipment.

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.

ROYPOW, Your Trusted Partner

For One-stop Energy Solutions

ROYPOW TECHNOLOGY is dedicated to the R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions.

With more than 20 years of combined experience in manufacturing renewable energy and battery systems, ROYPOW provides Lithium-ion Batteries covering most daily living and working environments: Low-Speed Vehicles such as Golf Carts, Personnel Carriers; Industrial Batteries for use in Material Handling Equipment such as Forklifts, Aerial Work Platforms and Floor Cleaning Machines as well as renewable Energy Storage Systems for Residential, Commercial, Industrial, Vehicle-mounted and Marine applications.

ROYPOW has established a worldwide network to serve customers with a manufacturing center in China and subsidiaries in the USA, the UK, Germany, Europe, South Africa, Australia, and Japan to date. ROYPOW owns and operates fully automatic production lines, a full range of test equipment and an advanced MES that collectively address all aspects of its manufacturing process, from electronics, software design to module assembly, battery assembly as well as initial and final testing.

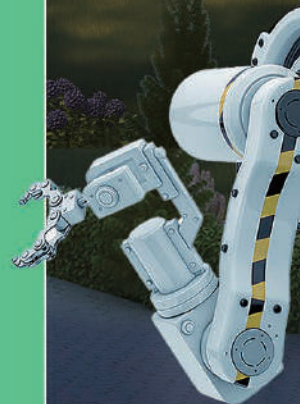
As a renewable energy innovator, ROYPOW is committed to the mission of achieving energy sustainability while creating a better life for human beings.



R&D and Manufacturing Highlights

ROYPOW is capable of "end-to-end" integrated delivery, which make our products outperform typical industry norms.

- All-around testing.
- Integrated design.
- Advanced MES system.
- IATF 16949 automotive quality management system certification
- QC system.
- Persistent technology innovation.
- Fully automatic production line.
- ISO12405-2 vibration performance and safety testing of automotive lithium batteries



Global Sales and Service Network System

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

ROYPOW has comprehensively unfolded its overseas market layout to realize the localization of R&D, manufacturing, marketing and service, then become your most reliable partner.



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;
- ✓ **Industrial Batteries** including forklifts, aerial work platforms and floor cleaning machines;
- ✓ **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 villa without electricity, etc.);
- ✓ **Vehicle-Mounted Energy Storage Systems** including RV and truck energy storage and air conditioning system, as well as off-grid solar system for RV;
- ✓ **Marine Energy Storage Systems & Batteries** including trolling motors, fish finders, other off-grid energy storage systems for marine, and marine power system;
- ✓ **Chargers** for forklifts, aerial work platforms, floor cleaning machines, golf carts and various marine batteries.

