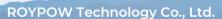
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Version: September 12, 2024, LiFePO₄ Batteries for Forklifts





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LiFePO₄ Batteries

for Material Handling Equipments

Drop-in lithium-ion for lead-acid alternatives





@ www.roypow.com





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05 / ROYPOW Original Chargers for Forklifts

ROYPOW For One-stop New Energy Solutions

- R&D. manufacturing and sales of motive power systems and energy storage systems as one-stop solutions
- Fully automatic production lines, a full range of test equipment and an advanced MES
- Covering Low-Speed Vehicles' Batteries. Industrial Batteries, as well as Residential ESS, Commercial & Industrial ESS, and Mobile ESS
- Self-development of power electronics technologies, including PCS, BMS, and EMS



750+ Employees

190+ R&D People

105.000 m² Headquarters Floor Area

2,500 m² Testing Center

171 Patents

Quality Control Certificates:

Environmental Management System:

ISO 14001:2015

✓ Occupational Health and Safety Management System:

ISO45001:2018

Quality Management System: ISO 9001:2015, IATF16949:2016 ✓ Information Security Management System:

ISO/IEC 27001:2022

Social Accountability Management System:

SA8000:2014

✓ Hazardous Substance Process Management:

IECQ QC 080000



| Product Certifications:

UL 1973, UL 9540A, UL 9540, UL 2580, UL 2271, UL 1741





FCC, IEC/EN 61000-6, BS EN IEC 61000-6

IEEE 1547





IEC 60730, ISO 13849-1

IEC 62619





UN 38.3

EN 62477, EN 62040, (EU) 2023/1542, EN 62109-1, EN 62109-2



RoHS Directive 2011/65/EU & (EU) 2015/863

R&D and Manufacturing Highlights

As a result of these investments, ROYPOW is capable of "end-to-end" integrated delivery, making our products out-perform the industry norms.



BMS, PCS, EMS All Designed in House





Global Sales and Service Network







ROYPOW 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.

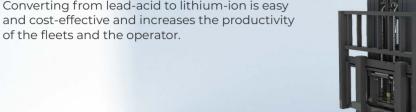
With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:

- > Low-speed Vehicle Batteries
- > Battery Systems for Off-highway Applications
- Residential Energy Storage Systems
- > Mobile Energy Storage Systems

- > Industrial Batteries
- > Battery Systems for Emerging Applications
- > Commercial & Industrial Energy Storage Systems
- **>** Chargers



New Technology. **Create Great Value** for Your Business Converting from lead-acid to lithium-ion is easy





Benefits of Lithium-ion Batteries



Lead-acid



Longer life

3 to 4 times lead-acid lifespan

✓ Reduces overall battery investment

Retrofit Your Fleet to Lithium-ion Batteries.

✓ Eco-friendly

LiFePO₄ battery

✓ Minimize the need for spares

3 years

design life





0 maintenance

no need for regular filling of distilled water and electrolyte

- ✓ No regular filling of distilled water
- Saving costs on labor and maintenance
- ✓ Less unplanned downtime and improved productivity
- ✓ No frequent battery replacements





5



5 years warranty

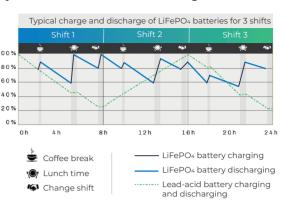
Extended warranty bring you peace of mind

- ✓ 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.



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.

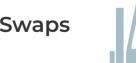
LFP offers longer life, is more energy-dense, more stable, is more compact, and weighs less than lead-acid. Our battery packs are sealed units requiring no daily or weekly watering and no maintenance. LFP is ideal for batteries used in Forklifts.

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**





✓ 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

ROYPOW

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	5y	T		
Maintenance	5y	/		
Electricity waste	5y	/		
Installation	5y			
Shipping	€ € € 5 _y			

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.

Maintenance

Up to
Up to
Up to
Cycle Life

Up to



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.



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	тсм
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.



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



For Class Forklifts

24 V Battery System

For Pallet Jacks, Stackers, Tugs

36 V Battery SystemFor Order Pickers, Reach Trucks

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



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.



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.



Built-in Battery Management System (BMS)

The smart and reliable BMS can ensure a better performance, and deliver longer battery run time and lifespan.



Fire Safety

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



SoC Meter

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



Heating Function (Optional)

The optional heating function can warm up the battery for optimal charging even at a low temperature of -20°C.



Anti-walking Function

It can prevent your equipment from a sudden start or moving during charging.



IP65 Protection

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



Specifications

	N- 1 1		Technical S					ge/Discharg		Gen		
Model	Nominal Voltage	Nominal Capacity	Nominal Energy	Cycle Life	Dimensions (L*W*H)	Weight lbs. (kg)	_	Continuous Discharge	Maximum Discharge	Casing Material	IP Rating	Certifcation
24 V Sys	tem											
F24100		100 Ah	2.56 kWh		25 x 7.09 x 21.2 inch (635 x 180 x 538.5 mm)	110.23 lbs (50 kg)	50 A	100 A	300 A (30 S)			/
F24100M		100 Ah	2.56 kWh		25 x 7.09 x 21.2 inch (635 x 180 x 538.5 mm)	110.23 lbs (50 kg)	50 A	100 A	300 A (30 S)			UL
F24150		150 Ah	3.84 kWh		25 x 7.09 x 21.2 inch (635 x 180 x 538.5 mm)	132.28 lbs (60 kg)	50 A	100 A	300 A (30 S)		IP65	/
F24150L		150 Ah	3.84 kWh		25 x 7.09 x 21.2 inch (635 x 180 x 538.5 mm)	132.28 lbs (60 kg)	50 A	100 A	300 A (30 S)			UL
F24160		160 Ah	4.10 kWh		24.57 x 8.27 x 24.69 inch (624 x 210 x 627 mm)	198.42 lbs (90 kg)	80 A	160 A	480 A (30 S)			/
F24200		200 Ah	2.69 kWh		28.35 x 8.27 x 24.80 inch (720 x 210 x 630 mm)	507 lbs (230 kg)	100 A	200 A	600A (30 S)			/
F24230		210 Ah	5.38 kWh	>3,500	24.57 x 11.18 x 24.69 inch (624 x 284 x 627 mm)	220.46 lbs (100 kg)	115 A	230 A	600 A (30 S)			/
F24280	25.6 V	280 Ah	7.17 kWh	times	24.57 x 8.27 x 24.69 inch (624 x 210 x 627 mm)	242.5 lbs (110 kg)	140 A	280 A	600 A (30 S)	Steel		/
F24320		320 Ah	8.06 kWh		25.59 x 13.78 x 18.50 inch (650 x 350 x 470 mm)	286.60 lbs (130 kg)	160 A	315 A	600 A (30 S)			/
F24400		400 Ah	10.24 kWh		28.34 x 8.27 x 24.80 inch (720*210*630)	286.60 lbs (260 kg)	200 A	400 A	600 A (30 S)			/
F24420		420 Ah	10.75 kWh		30.94 x 8.27 x 24.80 inch (786 x 210 x 630 mm)	485 lbs (220 kg)	200 A	420 A	600 A (30 S)			/
F24560		560 Ah	14.34 kWh		30.71 x 16.73 x 18.50 inch (780 x 425 x 470 mm)	848.8 lbs (385 kg)	200 A	560 A	700 A (30 S)			/
F24560L		560 Ah	14.34 kWh		36.67x 12.8 x 22.48 inch (779 x 325 x 571 mm)	848.8 lbs (385 kg)	200 A	350 A	500 A (30 S)			UL
F24690		690 Ah	17.66 kWh		35.83x 12.6 x 31.89 inch (910 x 320 x 810mm)	1860 lbs (844 kg)	200 A	560 A	700 A (30 S)			/
F24840		840 Ah	21.50 kWh		38.80x 14.25 x 31 inch (985.5x 361.9 x 787.4mm)	1567 lbs (711 kg)	200 A	560 A	700 A (30 S)			/
36 V Syst	tem				(303.37.301.37.707.411111)							
F36420		420 Ah	16.13 kWh		31.50 x 3.78 x 22.44 inch (800 x 350 x 570 mm)	617.29 lbs (280 kg)	200 A	420 A	700 A (30 S)			/
F36460		460 Ah	17.66 kWh		30.71 x 16.73 x 22.44 inch (750 x 425 x 570 mm)	617.29 lbs (280 kg)	200 A	420 A	700 A (30 S)			/
		560 Ah	21.50 kWh		32.87x 16.73 x 22.44 inch (835 x 425 x 570 mm)	617.29 lbs (250 kg)	200 A	420 A	700 A (30 S)			/
F36560		560 Ah	21.50 kWh		31.50 x 29.92 x 13.78 inch	551.16 lbs (250 kg)	200 A	420 A	700 A (30 S)			/
		608 Ah	23.35 kWh	>3,500	(800 x 760 x 350 mm) 30.71 x 16.73 x 22.44 inch	617.29 lbs (280 kg)	200 A	420 A	700 A (30 S)	Charl	IP65	/
F36608	70 () (608 Ah	23.35 kWh		(780 x 425 x 570 mm) 31.50 x 24.61 x 16.54 inch	551.16 lbs (250 kg)	200 A	420 A	700 A (30 S)			
F36690AJ	38.4 V	690 Ah	26.50 kWh	times	(800 x 625 x 420 mm) 35.43 x 16.73 x 22.44 inch	683.43 lbs (310 kg)	200 A	420 A	700 A (30 S)	Steel		UL
F36690BC		690 Ah	26.50 kWh		(900 x 425 x 570 mm) 38.19x 20.39 x 29.49 inch	2705.07 lbs (1227kg)	200 A	420 A	700 A (30 S)			UL
		840 Ah	32.26 kWh		(970 x 518 x 749 mm) 34.64 x 29.92 x 18.11 inch	718.70 lbs (326 kg)	200 A	420 A	700 A (30 S)			/
		840 Ah	32.26 kWh		(880 x 760 x 460 mm) 33.46 x 24.01 x 22.44 inch	749.57 lbs (340 kg)	200 A	420 A				/
F36840		840 Ah	32.26 kWh		(850 x 610 x 570 mm) 33.46 x 16.93 x 28.34 inch	, 0,		420 A	700 A (30 S)			/
		840 Ah	32.26 kWh		(850 x 430 x 720 mm) 35.43 x 31.49 x 18.50 inch	870.83 lbs (395 kg)	200 A					/
48 V Sys	tom	040 A11	32.20 ((1))		(900 x 800 x 470 mm)	683.43 lbs (310 kg)	200 A	420 A	700 A (30 S)			,
F48210	tem				31.50 x 14.37 x 16.14 inch				500 A (70 C)			/
		210 Ah	10.75 kWh		(800 x 365 x 410 mm) 38 x 11.81 x 21.65 inch	297.62 lbs (135 kg)	105 A	210 A	500 A (30 S)			/
F48230		230 Ah	11.78 kWh		(965 x 300 x 550mm) 30.71 x 16.73 x 18.50 inch	815.71 lbs (370 kg)	200 A	350 A 280 A	500 A (30 S)			,
F48280		280 Ah	14.33 kWh		(780 x 425 x 470 mm) 27.56 x 22.05 x 18.11 inch	396.83 lbs (180 kg)	140 A		500 A (30 S)			,
F48315		315 Ah	16.1 kWh		(700 x 560 x 460 mm) 31.5 x 13.78 x 22.44 inch	507.06 lbs (230 kg)	157 A	350 A	500 A (30 S)			/
	51.2 V	315 Ah	16.1 kWh	>3,500 times	(800 x 350 x 570 mm)	617 lbs (280 kg)	157 A	350 A	500 A (30 S)			/
F48420AG	v	420 Ah	21.50 kWh		37.40 x 13.78 x 22.44 inch (950 x 350 x 570 mm) 37.40 x24.8 x 22.5 inch	661.39 lbs (300 kg)	200 A	350 A	700 A (30 S)	Steel	IP65	UL
F48420CA		420 Ah	21.50 kWh		(970 x 630 x 571.5 mm)	661.39 lbs (300 kg)	200 A	350 A	700 A (30 S)			UL ,
F48420BE		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	700 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))		/

Specifications

	Technical Specifications Charge								arge/Discharge Current		General	
Model	Nominal Voltage	Nominal Capacity	Nominal Energy	Cycle Life	Dimensions (L*W*H)	Weight Ibs. (kg)	_	Continuous Discharge	Maximum Discharge	Casing Material	IP Rating	Certifcation
48 V Syste	em											
48560AY		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)			/
48560		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)			/
48560X		560 Ah	28.67 kWh	>3,500 times	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)	Steel		UL
48560BS		560 Ah	28.67 kWh		35.43 x 16.73 x 22.44 inch (970 x 831 x 571.5 mm)	3199 lbs (1451 kg)	200 A	350 A	700 A (30 S)			UL
48690W		690 Ah	35.33 kWh		37.80 x 16.73 x 22.83 inch	837.76 lbs (380 kg)	200 A	350 A	700 A (30 S)		IP65	UL
48690BD	51.2 V	690 Ah	35.33 kWh		(960 x 425 x 580 mm) 35.43 x 16.73 x 22.44 inch	3199 lbs (1451 kg)	200 A	500 A	700 A (30 S)			UL
48690U		C00 Ab	35.33 kWh		(970 x 831 x 571.5 mm) 34.65 x 29.92 x 18.50 inch	7/0 F7 lbc (7/0 l/a)	200 A	E00 A				/
		690 Ah			(880 x 760 x 470 mm) 34.84 x 32.68 x 18.50 inch	749.57 lbs (340 kg)		500 A	700 A (30 S)			
48840		840 Ah	43 kWh		(885 x 830 x 570 mm)	529.1 lbs (240 kg)	200 A	500 A	700 A (30 S)			
		840 Ah	43 kWh		32.28 x 24.8 x 22.44 inch (820 x 630 x 570 mm)	1135 lbs (515 kg)	200 A	500 A	700 A (30 S)			/
481120		1120 Ah	57.34 kWh		39.37 x 31.50 x 22.24 inch (1000 x 800 x 565 mm)	1256 lbs (570 kg)	200 A	500 A	700 A (30 S)			/
2 V Syste	em											
72420		420 Ah	30.9 kWh		31.50 x 14.57 x 22.44 inch (800 x 370 x 570 mm)	903.90 lbs (410 kg)	200 A	350 A	700 A (30 S)			/
		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)			/
72460	73.6 V	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)	Steel	IP65	/
		560 Ah	41.22 kWh	times	29.92 x 16.73 x 22.44 inch	1102.31 lbs (500 kg)	200 A	350 A	700 A (30 S)			/
72560		560 Ah	41.22 kWh		(760 x 425 x 570 mm) 30.71 x 24.80 x 18.50 inch	1124.36 lbs (510 kg)	200 A	350 A	700 A (30 S)			/
		3007111	11.22 ((V))		(780 x 630 x 470 mm)	112 1.30 163 (310 Kg)	20071	33071	70071(303)			,
80 V Syste	em				75 /7 3657 00 //							
80280		280 Ah	22.4 kWh		35.43 x 16.73 x 22.44 inch (900 x 425 x 570 mm)	661.38 lbs (300 kg)	200 A	300 A	500 A (30 S)			/
80400		400 Ah	32.0 kWh		35.43 x 22 x 22.44 inch (900 x 560 x 570 mm)	925.95 lbs (420 kg)	200 A	300 A	700 A (30 S)		I IP65	/
80420G/ 80420H		420 Ah	33.6 kWh		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 (30 S)			/
80460H/F80460G 80460I/F80460J		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	700 A (30 S)			/
		560 Ah	44.8 kWh	>3,500	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)			/
80560	80 V	560 Ah	44.8 kWh	times	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)			/
80608		608 Ah	48.64 kWh		35.43 x 31.89 x 22.44 inch	1102.31 lbs (500 kg)	200 A	420 A	700 A (30 S)			/
80690		690 Ah			(900 x 810 x 570 mm) 38.58 x 31.89 x 22.44 inch	1025.15 lbs (465 kg)	200 A		700 4 (70 5)			
			55.2 kWh		(980 x 810 x 570 mm) 31.89 x 30.71 x 22.44 inch			420 A	700 A (30 S)			UL
80690D		690 Ah	55.2 kWh		(810 x 780 x 570 mm)	1201.52 lbs (545 kg)	200 A	420 A	700 A (30 S)			
80690K		690 Ah	55.2 kWh		39.72 x 32.76x 29.49 inch (1009 x 832 x 749 mm)	2705 lbs (1227 kg)	200 A	420 A	700 A (30 S)			UL
80840		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 Syst	tem											
90460	00.61/	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		/
90608	89.6 V	608 Ah	54.48 kWh		35.43 x 27.17 x 22.44 inch	1212.54 lbs (550 kg)	200 A	200 A	700 A (30 S)		IP65	/
6 V Syste	em				(900 x 690 x 570 mm)							
961120A		1120 Ah	107.52 kWh		55.90 x 24.21 x 30.9 inch	9038.95 lbs	200 A	750 ^	700 A (70 C)			/
961120B	96 V	1120 Ah		>3,500	(1420 x 615 x 785 mm A/B BOX) 47.83 x 28.15 x 30.51 inch	(4100 kg) 8950.77 lbs		350 A	700 A (30 S)	Steel	IP65	
		IIZU AII	107.52 kWh		(1215 x 715 x 775 mm)	(4060 kg)	200 A	350 A	700 A (30 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.

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.



Built-in BMS To reall be less in and advanced.

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 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)



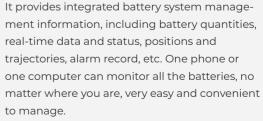
ROYPOW smart 4G module can realize remote monitoring in real time, even in different countries. If some faults occur, you can get an alarm in time. Once the faults can not be solved, you can get a remote diagnosis online from us to solve the problems as soon as possible.

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

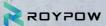
Smart On-line Cloud Platform







19 ₂₀



Original Chargers for Forklift

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



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.









Anti-reverse

Over-charge nnection function













protection



protection



power off

Wide voltage Constant current operation constant voltage

How to Charge? Easy and safe

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



Drive to the forklift

battery station

Drive to the forklift battery station,

and apply the parking brake.

switch off, plug in the charging cable









2 Automatically monitor

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

Fully charged

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

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.

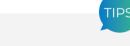




Where do ROYPOW lithium-ion batteries charge?

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.



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.