

Your trusted PARTNER





LiFePO4 BATTERY FOR GOLF CARTS





PRO CAR CARTS - OFFICIAL DISTRIBUTOR FOR ROYPOW.



WEBSITE: WWW.PROCARCARTS.CO.ZA
WEBSITE: WWW.ROYPOWBATTERIES.CO.ZA

TEL: +27 (0) 31 569 3482

EMAIL: INFO@PROCARCARTS.CO.ZA





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WHY CHOOSE A LiFePO4 BATTERY



REPLACEMENT



BENEFITS OF LiFePO4 BATTERY





Low internal resistance and high efficiency



ULTRA SAFE

Multiple protection, thermal and chemical stability



LONG LIFE

Up to 3,500 life cycles



LIGHT WEIGHT

Up to 50% saving in space and 70% saving in weight



FAST CHARGING

Up to 2.5 hrs fast charging time



ZERO MAINTENANCE

No daily maintenance work and costs



COST **EFFECTIVE**

Up to 70% saving in expenditures



EXTREME TEMP. PERFORMANCE

Discharge rate up to 85% at -4°F(-20°C)

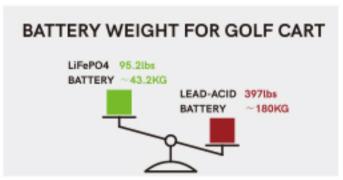
LiFePO4 COMPARED TO LEAD-ACID

ROYPOW LiFePO4 BATTERY (51V 105AH) VS. LEAD-ACID BATTERY (48V 175AH) 3 Li LiFePO4 B2 Pb Lead

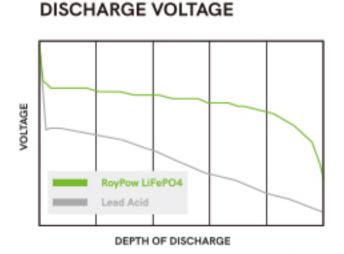
DESIGN LIFE 10 YRS 1-2 YRS







	ROYPOW LIFePO4 BATTERY (51V 105AH)	LEAD-ACID BATTERY (48V 175AH)
CYCLE LIFE	> 3500 times	< 500 times
SAFETY	Multiple built-in protection	Gas inside may cause explosion
ECO FRIENDLY	No pollution	Lead is harmful
COST EFFECTIVE	More benefits, less man-hours costs	Less benefits, more man-hours costs
CHARGING FREQUENCY	No memory, charge any time	Charge everyday after using



FIVE-YEAR COST COMPARISON



PURCHASES OVER FIVE YEARS	LiFePO4 BATTERY ROYPOW (51V 105AH)		ACID BATTE 75AH)	RY		
BATTERY COST	\$	\$	\$	\$	\$	\$
MAINTENANCE						
ELECTRICITY WASTE		0))))	0))))	0))))	0))))	0))))
INSTALLATION	99	e 9 9	e 9	0)))	000	000
SHIPPING	9	0	9	9	9	9



S SERIES

The Right Choice for Your Golf Cart Fleet

ZERO MAINTENANCE

UP TO

5YRS

MILEAGE





Our LiFePO4 batteries are designed to replace the lead-acid batteries. They can deliver the sort of hassle-free experience customers increasingly demand - batteries that are longer lasting, longer range, free from daily maintenance and have a designed life-span of 10 years.

They also offer high charging efficiency and less power consumption.



	TECHNICAL SPECIFICATION						STANDARD CHARGE CURRENT	STANDARD DISCHARGE CURRENT	
MODEL	NOMINAL VOLTAGE	NOMINAL CAPACITY	STORED ENERGY (Wh/kg)	DIMENSION (L*W*H)cm	WEIGHT lbs.(kg)	MILEAGE PER FULL CHARGING	STANDARD CHARGE	STANDARD DISCHARGE	MAXIMUM DISCHARGE
36V									
S3856	38V	50Ah	1.92kWh	38.5*33.8*24.5	59(27)	Up to 15-20 miles	22A	50A	200A(10S)
S38105	38V	105Ah	4.03kWh	38.5*33.8*24.5	75(34)	Up to 30-40 miles	22A	100A	200A(10S)
48V									
S5156	51V	50Ah	2.6kWh	46*33.4*23.2	77(35)	Up to 20-30 miles	22A	50A	200A(10S)
S51105	51V	105Ah	5.3kWh	46*33.4*23.2	96(43.6)	Up to 40-50 miles	22A	100A	200A(10S)
S51105P	51V	105Ah	5.3kWh	58.5*33*25	103(46.8)	Up to 40-50 miles	22A	105A	315A(30S)
S51160	51V	160Ah	8.2kWh	80*36*22.1	159(72)	Up to 60-70 miles	22A	100A	200A(10S)
S51160P	51V	160Ah	8.2kWh	80*32*23.2	165(75)	Up to 60-70 miles	22A	160A	315A(30S)
72V									
S72105P	72V	105Ah	8.06kWh	74*32*24.6	159(72)	Up to 60-70 miles	14A	105A	315A(30S)

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the batteries.

AFFORDABLE, DURABLE, RELIABLE



SAVE MONEY AND STAFF TIME

You don't need to pay man-hours costs of regular water filling, maintenance, checks, and expensive recycling costs. No battery acid stains on driveway pavers or garage floor.



MORE RUNTIME. **MORE MILEAGE**

Top class performance delivers battery with no money, you can charge any time, and with a full charge time, you can run longer and up to 70 miles mileage.



FAST CHARGING AND STABLE OPERATION

More thermal and chemical stability and multiple built-in protection functions make this battery reliable and stable with enjoying faster charging time.

UP TO 8.2 **KWH**

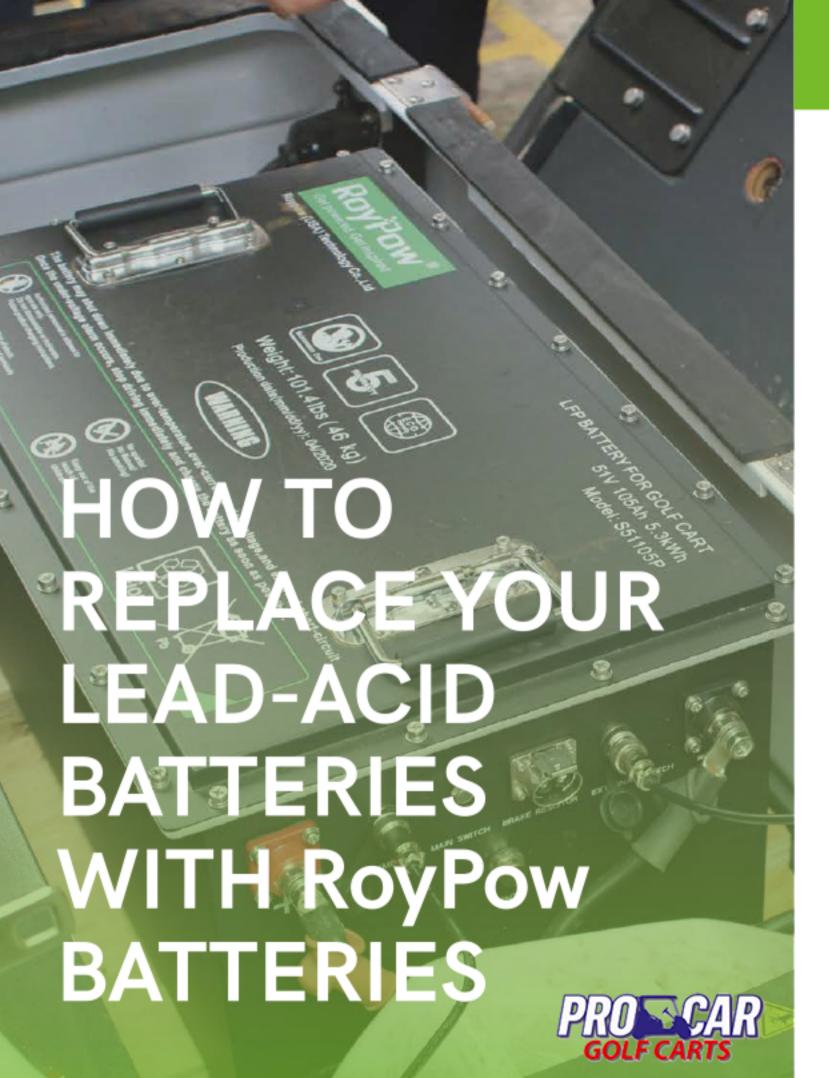
UP TO **AMP**

2.5HRS FAST CHARGING

OVER 3500 LIFE CYCLES

The "S series" covers the most popular golf cart brands and models. If this doesn't fit your requirements, with our wide product range, advanced technology and continuous R&D, we will be happy to discuss alternative solutions or bespoke engineered options.

	RGING ME			GENERA	AL				ENVIRONMENT	TEMP. RANGE	
QUICK CHARGE	STANDARD CHARGE	LIFE CYCLES	SELF DISCHARGE PER MONTH	CELL COMBINATION	CELL I ASSEMBLY	CASING MATERIAL	IP RATING	CHARGE	DISCHARGE	STORAGE (1 MONTH)	STORAGE (1 YEAR)
2.0h	5.0h	> 3500 times	Max 3%	12S1P	LF50K (3.2V 50Ah)	Metal	IP67	32°F~131°F (0°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~113°F (-20°C ~ 45°C)	-32°F~95°F (0°C ~ 35°C)
2.0h	5.0h	> 3500 times	Max 3%	12S1P	LF105 (3.2V 50Ah)	Metal	IP67	32°F~131°F (0°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~113°F (-20°C ~ 45°C)	-32°F~95°F (0°C ~ 35°C)
2.0h	2.5h	> 3500 times	Max 3%	16S1P	LF50K (3.2V 50Ah)	Metal	IP67	32°F~131°F (0°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~113°F (-20°C ~ 45°C)	-32°F~95°F (0°C ~ 35°C)
2.5h	5.0h	> 3500 times	Max 3%	16S1P	LF105 (3.2V 105Ah)	Metal	IP67	32°F~131°F (0°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~113°F (-20°C ~ 45°C)	-32°F~95°F (0°C ~ 35°C)
2.0h	5.0h	> 3500 times	Max 3%	16S1P	LF105 (3.2V 105Ah)	Metal	IP67	32°F~131°F (0°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~113°F (-20°C ~ 45°C)	-32°F~95°F (0°C ~ 35°C)
3.0h	5.0h	> 3500 times	Max 3%	16S2P	LF80A (3.2V 82Ah)	Metal	IP67	32°F~131°F (0°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~113°F (-20°C ~ 45°C)	-32°F~95°F (0°C ~ 35°C)
3.0h	5.0h	> 3500 times	Max 3%	16S2P	LF80A (3.2V 82Ah)	Metal	IP67	32°F~131°F (0°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~113°F (-20°C ~ 45°C)	-32°F~95°F (0°C ~ 35°C)
2.5h	8.0h	> 3500 times	Max 3%	24S1P	LF105 (3.2V 105Ah)	Metal	IP67	32°F~131°F (0°C ~ 55°C)	-4°F~131°F (-20°C ~ 55°C)	-4°F~113°F (-20°C ~ 45°C)	-32°F~95°F (0°C ~ 35°C)



BATTERY REPLACEMENT STEPS

01

Open the golf cart compartment, you will see the original lead-acid batteries.

02

Disconnect all the wires safely, and pull the batteries out.

03

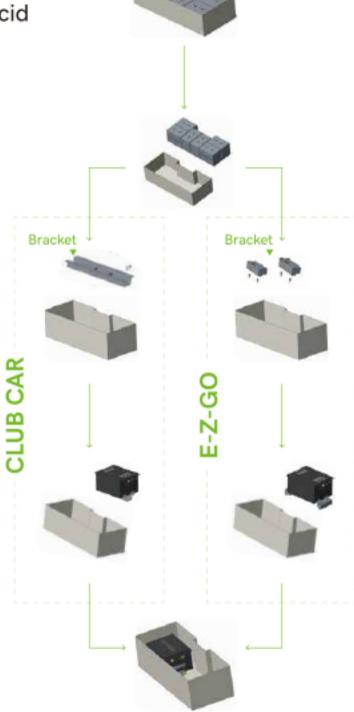
Fasten the bracket on the tray as the base.

04

Put RowPow LiFePO4 battery pack inside and fasten the pack to the bracket base.

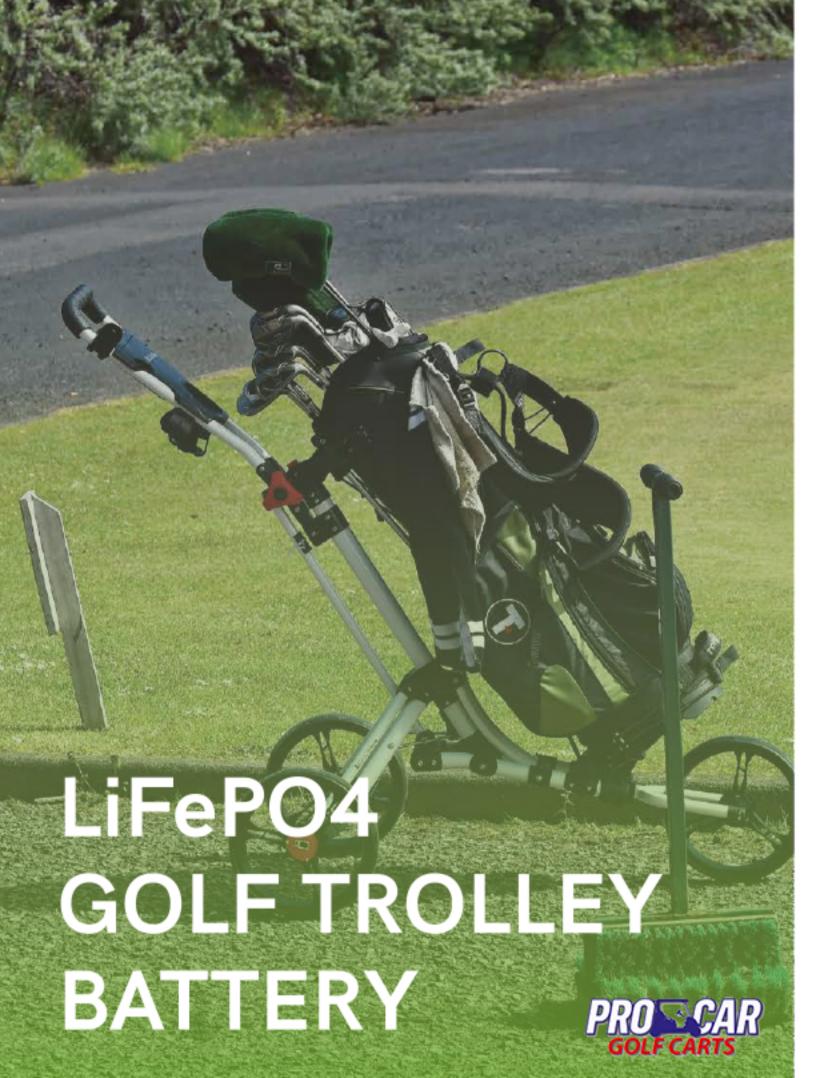
05

Connect the wires safely, then you are ready to go.



Note: Only authorized personnel are allowed to operate or make adjustments to the batteries







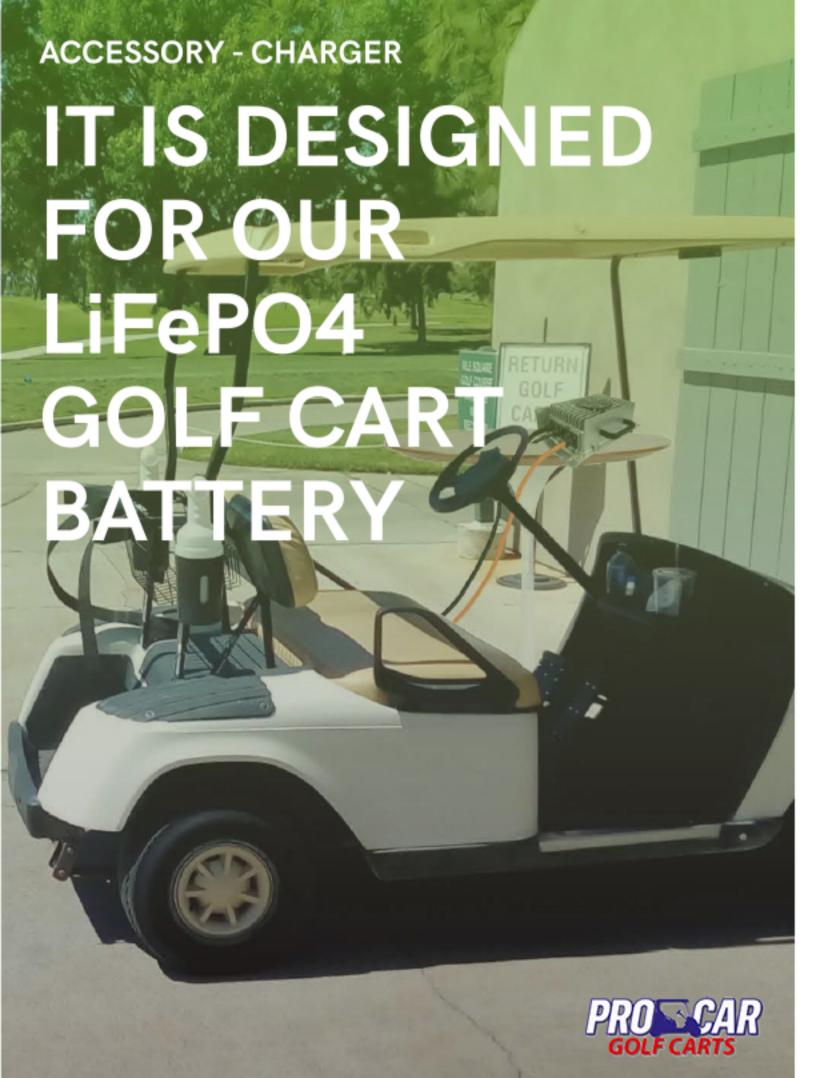
PRODUCT SPECIFICATION

LiFePO4 BATTERY PACK	12.8V24Ah
NOMINAL CAPACITY (AT 0.2C DISCHARGE RATE)	24±1Ah
STORED ENERGY	307.2Wh
DISCHARGE NORMAL CURRENT	≤15A
DISCHARGE MAX CONTINUOUS CURRENT	≤30A (≤5min)
DISCHARGE INNER RESISTANCE	≤40m Ω
CELL COMBINATION	454P
CASING MATERIAL	ABS
WEIGHT	6.5lbs(2.95 kg)
DIMENSION (L*W*H, ±1, CM)	17 *15.7*10.2
CHARGE CURRENT	≤6A
CHARGING INPUT	Lotus plug
DISCHARGE OUTPUT	"T-Anderson connectors (Length: 33±10 cm)"
NOMINAL VOLTAGE	12.8V
LIFE CYCLES	>2000 times
DISCHARGE CUT-OFF VOLTAGE	About 10V
CHARGE VOLTAGE	14.6±0.1V
CHARGE MODE	CC/CV, please use special lithium charger
CHARGE TEMPERATURE RANGE	32°F∼113°F (0℃~45℃)
DISCHARGE TEMPERATURE RANGE	-4°F~140°F (-20℃~60℃)
STORAGE TEMPERATURE RANGE (LONG-TERM)	59°F~77°F (15°C~25°C)
HUMIDITY	RH≤85%

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the batteries.

2. All data are based on RoyPow standard test procedures. Actual performance may vary according to local conditions.









Fast charging reaches up to 30A output current, high-efficiency performance for electricity savings and shorter charge times. Active cooling enables optimal peak performance.



Capable of operating reliably on any single-phase grid worldwide.



HIGH RELIABILITY

Manufactured in a world-class facility specializing in high-reliability solutions. Rugged, IP66 sealed aluminum die-cast enclosure protects against vibration, shock, dirt, fluids and chemicals.



INTELLIGENT

Compact, light, automatic trickle charge function. Automatically charges batteries and keeps them at full charge even when you're away from your home/work so they never die and can give your batteries longer overall life.

PRODUCT SPECIFICATION

DC OUTPUT	MAXIMUM DC OUTPUT VOLTAGE	58.2V
	MAXIMUM DC OUTPUT CURRENT	22.0A
DC COTFOT	MAXIMUM DC OUTPUT POWER	1704W
	NOMINAL DC OUTPUT CURRENT	"30A @ 220VAC 22A @ 110VAC"
	BATTERY TYPE	Lithium
	AC INPUT VOLTAGE RANGE	85-270VAC
	NOMINAL AC INPUT VOLTAGE	100-240VAC
AC INPUT	NOMINAL AC INPUT FREQUENCY	50 / 60Hz
	MAXIMUM AC INPUT CURRENT	11A
	NOMINAL AC INPUT CURRENT	10A
	POWER FACTOR	>0.9
	DIMENSIONS	28.2 x 16.7 x 11.4cm (11.1 x 6.57 x 4.5")
MECHANICAL	WEIGHT	10.4 lbs (4.7kg)
	COOLING	Active cooling with fan
	ENCLOSURE	IP66
END WEGONIA EN EN	HUMIDITY	5% — 95%
ENVIRONMENTAL	OPERATING TEMPERATURE	"-40°F to 149°F (-40°C to +65°C) Derated at >104°F (40°C)"
	STORAGE TEMPERATURE	-40°F to 185°F (-40°C to +85°C)

Note: All data are based on RoyPow standard test procedures. Actual performance may vary according to local conditions.





ROYPOW TECHNOLOGY CO., LTD IS A SUBSIDIARY OF EVE ENERGY WHO IS A TECHNOLOGY LEADER IN LITHIUM BATTERY R&D AND MANUFACTURING. IT HAS BEEN A STRONG AND INNOVATION-DRIV-EN LITHIUM BATTERY COMPANY SINCE ITS FOUNDING IN 2001.

- ROYPOW'S PURPOSE is to provide reliable and clean lithium power and energy storage solutions with cutting edge products covering customers' lives from home, travel, and industrial equipment to leisure equipment and golf carts.
- ▶ WITH 20 YEARS' EXPERIENCE in battery technology, RoyPow is proud to offer customers

professional battery system solutions for low speed vehicles (LSVs) including golf carts, automated guided vehicle (AGVs), industrial applications including forklifts and materials handling equipment, aerial work platforms and floor cleaning machines, energy storage including portable & mobile appliances, residential power storage and solar systems.



COMPANY STRENGTH

RoyPow is always striving to push boundaries with innovation and technology.







R&D ability

R&D test centers

Manufacture ability





PHD'S





8.000

STAFF







FACTORIES

R&D **ENGINEERS**

1,370 PATENTS

ADVANCED R&D CENTER

50,000m² FACTORY

FULLY AUTOMATION PRODUCTION

"USING THE MOST ADVANCED AUTOMATED PRODUCTION **FACILITIES, ROYPOW PRODUCES HIGH QUALITY POWER CELLS** AND BATTERY PACK SYSTEMS FOR YOU."

FACTORIES





Zhongkai HQ Zone A

Zhongkai HQ Zone B



Jinquan Industrial Park Zone 1

Jinquan Industrial Park Zone 2

