



# USERS MANUAL

## Aerial Work Platform Lithium Battery



**WARRANTY INFO:**

Serial number \_\_\_\_\_

Purchase date \_\_\_\_\_

# Welcome to Roypow Products

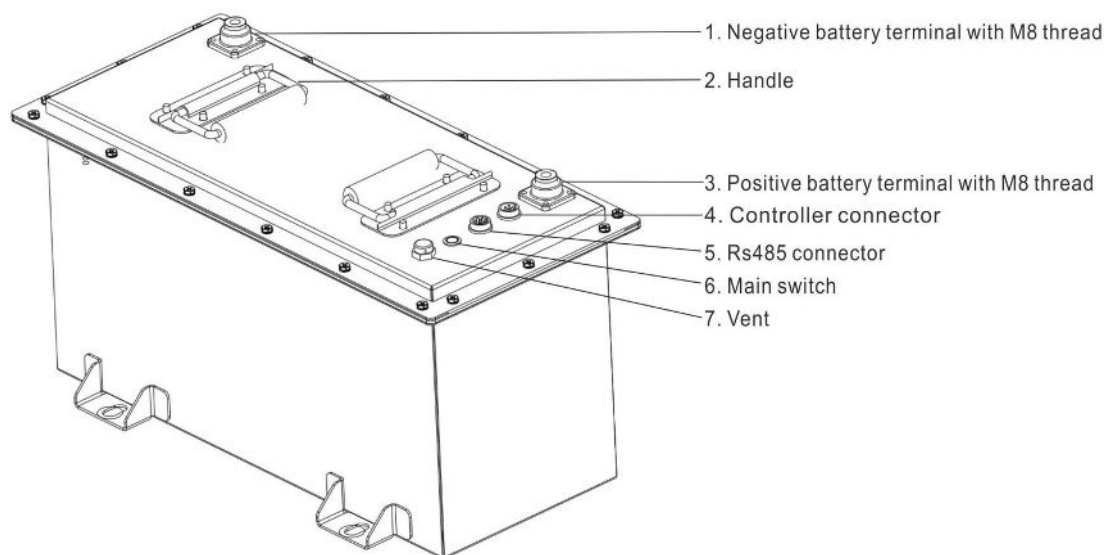
At Roypow we provide Aerial Work Platform battery that is safe and reliable. Our lithium battery packs are designed with integrated battery system, the batteries are used in replacing the lead-acid battery, which are available for drop-in replacement for the Aerial Work Platform.

Please read the user manual carefully before using the product and always take care when using this product. This product is not intended for use by young or infirm persons without supervision.

## OVERVIEW

The batteries are equipped with an integrated cell management system which features:

- Cell balancing
- Battery voltage monitoring
- Battery current monitoring
- Pre warning when battery is almost empty (communication by means of RS485)
- Battery temperature monitoring (integrated temperature sensor)



Note:

1, Press “Main switch” button for 2 seconds to turn on/off the battery, green light indicates power on. Or use the controller to turn on the battery.

2,When the room temperature is between  $-4^{\circ}\text{F}\sim 32^{\circ}\text{F}$  ( $-20^{\circ}\text{C}\sim 0^{\circ}\text{C}$ ), The charger will pre-heating the battery when charging, the heating time depend on the room temperature , which may be as long as 1 hour. The charger starts to charge the battery when the battery temperature reaches  $32^{\circ}\text{F}$ ( $0^{\circ}\text{C}$ ). Only Roypow’s charger work with this pre-heating batteries..

## DELIVERY CONTENTS



# Specification

Model		S24105P	S24160P	S24210P	S51105B
<b>Technical Parameter</b>	Nominal voltage	25.6V	25.6V	25.6V	51.2V
	Nominal capacity	105Ah	160Ah	210Ah	105Ah
	Stored energy	2,688Wh	4,096Wh	5,376Wh	5,376Wh
	Life cycles	>3500 times	>3500 times	>3500 times	>3500 times
	Self discharge	Max 3% per month	Max 3% per month	Max 3% per month	Max 3% per month
<b>Charge current</b>	Maximum charge	105Ah	160Ah	210Ah	105Ah
	Standard charge	30A	30A	30A	30A
<b>Charging time</b>	Standard charge	3.5h	5.5h	7h	3.5h
<b>Discharge current</b>	Continuous discharge	105A	160A	210A	105A
	Maximum discharge	250A	350A	350A	250A
	Over Current protection	250A with 30S	350A with 30S	350A with 30S	250A with 30S
Environment temperature range	Charge	-4°F~131°F ( -20°C ~ 55°C)	-4°F~131°F ( -20°C ~ 55°C)	-4°F~131°F ( -20°C ~ 55°C)	-4°F~131°F ( -20°C ~ 55°C)
	Discharge	-4°F~131°F ( -20°C ~ 55°C)	-4°F~131°F ( -20°C ~ 55°C)	-4°F~131°F ( -20°C ~ 55°C)	-4°F~131°F ( -20°C ~ 55°C)
	Storage	-4°F~113°F ( 1 month ) ( -20°C~45°C) 32°F~95°F ( 1 year ) ( 0°C~35°C)	-4°F~113°F ( 1 month ) ( -20°C~45°C) 32°F~95°F ( 1 year ) ( 0°C~35°C)	-4°F~113°F ( 1 month ) ( -20°C~45°C) 32°F~95°F ( 1 year ) ( 0°C~35°C)	-4°F~113°F ( 1 month ) ( -20°C~45°C) 32°F~95°F ( 1 year ) ( 0°C~35°C)
<b>General</b>	Cell combination	8S1P	8S2P	8S2P	16S1P
	Cell assembly	LF105 (3.2V 105Ah)	LF80 (3.2V 80Ah)	LF105 (3.2V 105Ah)	LF80 (3.2V 80Ah)
	Casing material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Weight	59.5 lbs (27 kg)	94.8 lbs (43 kg)	101.4 lbs (46 kg)	101.4 lbs (46 kg)
	Dimension (L*W*H)	19.2*9.6*10.5" (48.8*24.4*26.7cm)	20.6*14.2*10.5" (52.4*36*26.7cm)	20.6*14.2*10.5" (52.4*36*26.7cm)	20.6*14.2*10.5" (52.4*36*26.7cm)
	IP rate	IP67	IP67	IP67	IP67