

# User Manual



## Golf Cart Lithium Battery User Manual

# Content

YJC TECHNOLOGY CO.,LTD .....	3
OVERVIEW .....	3
DELIVERY CONTENTS .....	5
Installing the LFP Battery .....	8
BATTERY REPLACEMENT STEPS .....	8
Steps to install the Battery Meter .....	9
Steps to install the external switch .....	10
Steps for installing power cables .....	10
Steps for install charger .....	11
Warnings.....	11
HANDLING AND MAINTENANCE.....	12
WARRANTY REPAIRS/ REPLACEMENTS .....	15

## 1.YJC TECHNOLOGY CO.,LTD

This Specification describes the requirements of the lithium ion rechargeable battery supplied by Shenzhen YJC Technology Co., Ltd. Welcome to use the products of Shenzhen YJC TECHNOLOGY CO.,LTD. YJC provides a safe and reliable golf cart battery. Our golf cart lithium battery pack is designed as an integrated golf cart battery system, which can effectively replace the lead-acid battery on the golf cart. Please read the user manual carefully before using this product and always be cautious when using this product. This product is not suitable for use by minors without supervision.

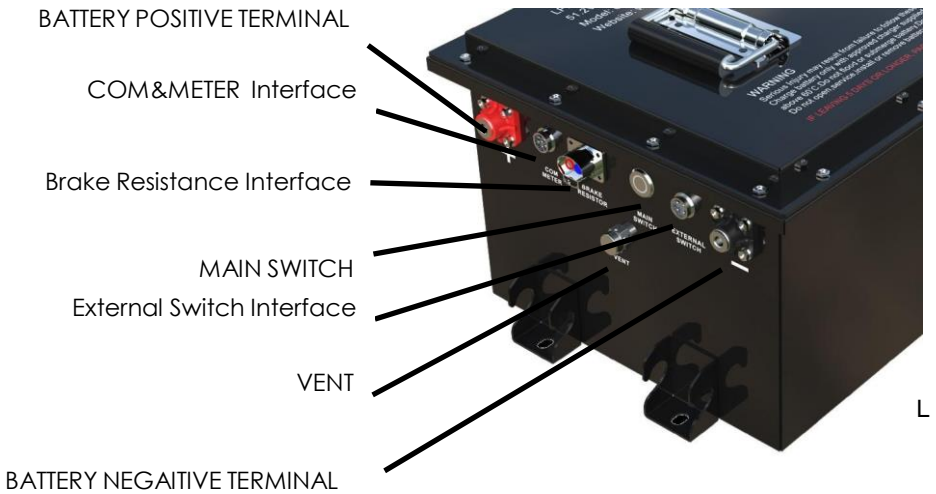
## OVERVIEW

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

- Cell balancing
- Battery voltage monitoring
- Battery current monitoring
- Pre warning when battery capacity less than 20%

(communication by means)

- Battery temperature monitoring (integrated temperature sensor)



Power on: Press the switch button and keep it depressed. Turn on the battery power switch, and the blue light on the main switch will light up.

Power off: Press the switch button and keep it flat. Turn off the battery powerswitch, and the blue light on the main switch will turn off.

## 2. DELIVERY CONTENTS



LFP battery



EXTERNAL SWITCH  
cable and switch



Power cable



COM cable  
and Battery Meter



Charger



Brackets

1).LFP battery: Provides a safe and reliable clean energy source, and themodel parameters can be found in the technical specification table.

2).EXTERNAL SWITCH cable and switch: The button switch can be installed

in an appropriate position on the dashboard, making it convenient for drivers to switch on and off the power supply. The structural method is a 4-core aviation plug, button switch, and 3-meter cable.

3).Power cable: used to connect the positive and negative poles of the battery to the input positive and negative poles of the controller, with a structure of SC25-8 wire nose and a 4AWG silicone cable.

4).Communication harness and battery instrument: The instrument can be installed in an appropriate position on the dashboard, making it convenient for drivers to intuitively understand the battery level, voltage, and working current

5).Charger: Used to charge the battery.

6).Bracket: Used to fix lithium iron phosphate batteries on golf carts, with a structure of long aluminum profiles, short aluminum profiles, and several screws.Note: The configured short aluminum profile is of standard size. If there are special size requirements, long aluminum profiles can be used for cutting.

### 3. SPECIFICATION

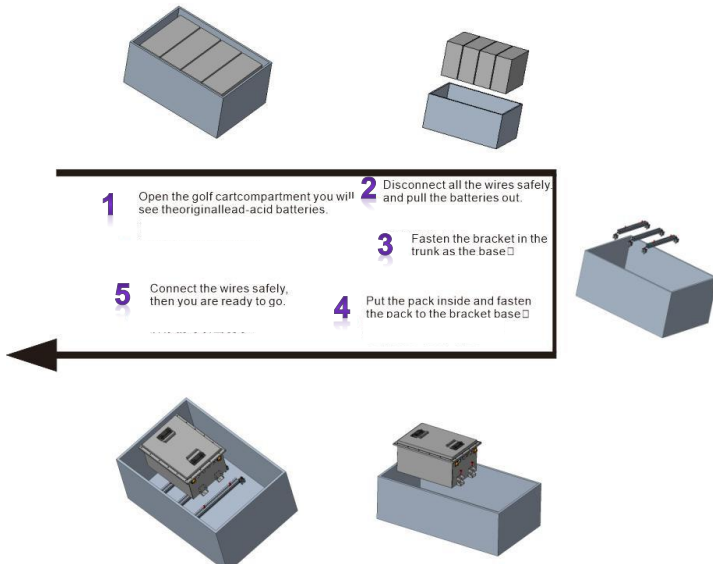
Model	Item	48105P	48160P	72105P
Technical Parameter	Nominal voltage	51.2V	51.2V	73.6V
	Nominal capacity	105Ah	160Ah	105Ah
	Stored Energy	5.38kWh	8.19kWh	7.73kWh
	Life cycles	>3500 times >3500	>3500 times >3500	>3500 times >3500
Charge current	Maximum charge current	105A	160A	105A
	Standard charge current	15A	22A	15A
Charging time	Standard charge time	5h	8h	5h
Discharge current	Continuous Discharge current	105A	160A	105A
	Maximum discharge current	200A	200A	200A
	Over Current Detection	200A with 10S 200A 10	200A with 10S 200A 10	200A with 10S 200A 10
Environment	Charge temperature range	32°F~131°F ( 0°C ~ 55°C)	32°F~131°F ( 0°C ~ 55°C)	32°F~131°F ( 0°C ~ 55°C)
	Discharge temperature range	-4°F~140°F ( -20° C ~ 60°C)	-4°F~140°F ( -20° C ~ 60°C)	-4°F~140°F ( -20° C ~ 60°C)
	Storage temperature range	-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)

General	Cell combination	1P16S	16S1P	23S1P
	Casing material	SPCC	SPCC	SPCC
	Weight	106 lbs (48 kg)	174 lbs (79 kg)	148 lbs (67kg)
	Dimension(L*W*H)	56.5*33*23cm	79.8*36*22.8cm	74*33*23cm
	IP rate	IP67	IP67	IP67

## 4. Installing the LFP Battery

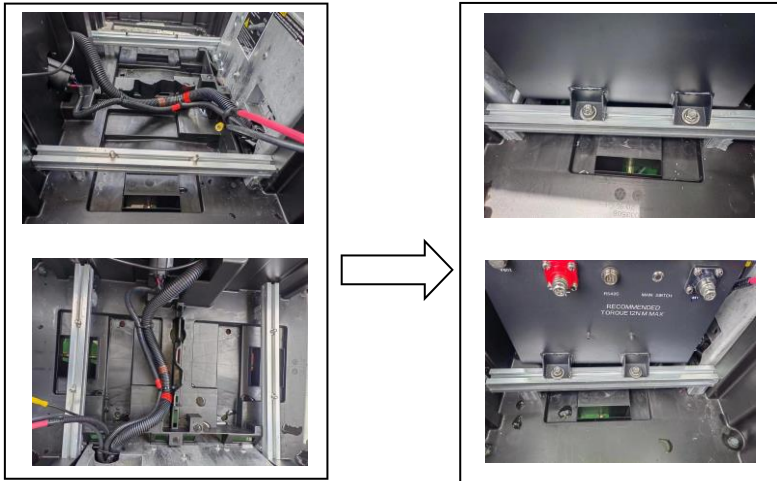
### 4.1. BATTERY REPLACEMENT STEPS

Different models require different mounting brackets





## Interchangeable Bracket



**Note:** Only authorized personnel is allowed to operate or make adjustments to the battery.

### 5.2.Steps to install the Battery Meter:

- 1).Install the battery meter in a suitable position on the dash.
- 2).Connect one end of the aviation plug of the communication harness and battery instrument cable to the COM interface on the battery, and then connect the other end to the battery indicator.

## **5.2 Steps to install the external switch:**

1).Install the external switch in a suitable position on the dash

2).Connect one end of the aviation plug of the external switch harness to the external switch connector on the battery, and then connect the other end to the external switch. The function of the external switch and the main switch on the battery are the same. Pressing one of the switch buttons or simultaneously, and keeping any button depressed, can turn on the battery power, and the blue lights on both switches will light up; Press the switch button and ensure that both switch buttons remain flat before turning off the battery power. The blue lights on both switches will turn off.

## **5.3.Steps for installing power cables:**

1).Connect one end of the red cable to the positive electrode of the battery with a bolt, and the other end of the cable with the input positive electrode of the controller with a bolt.

2).Connect one end of the black cable to the negative electrode of the battery with a bolt, and the other end of the cable with the input negative electrode of the controller with a bolt.

#### **5.4Steps for install charger:**

1).Refer to the charger manual for installation.

#### **6. Warnings:**

Do not disassemble, resemble, or repair the battery. Incorrect reassembly may cause combustion or electric shock.

If the battery is damaged, contact the place you purchased it.

Do not short– circuit the battery, use it near heat or water sources, or allow

it to become wet.

Do not insert nails or other objects into the battery, strike it, or weld directly on the battery.

Do not use a badly damaged battery or operate it with damaged cables or charging adapters.

Do not operate this product in explosive atmospheres (i.e. flammable liquids, gases, or dust) or set the unit on flammable materials (i.e. carpeting, upholstery, paper, cardboard).

Do not permit the battery to freeze. Never charge a frozen battery.

In case of skin or eye contact, rinse immediately with clean water and seek medical attention.

Do not keep using this product if it is damaged, waterlogged, distorted, or broken.

This product contains lithium-ion batteries. When it is worn out dispose of it properly using local laws and regulations.

## **7.HANDLING AND MAINTENANCE**

### **Storage**

For storage over one month, place the battery in a dry and ventilated room that is 32°F~95°F.

Do not store near corrosive material, fire, and heat sources.

In order to avoid over-discharge, for long-term storage, the power must be turned off and the SOC is kept above 60% to avoid over-discharge.

The battery must be fully charged and must be charged again every 6 months.

Operation

12 / 16

- **ATTENTION:** Before installing, make sure that all appliances are turned
- Turn on the battery
- Press the "MAIN SWITCH" button and after the switch is pressed to turn on the battery, a blue light indicates power on.
- Turn off the battery
- Press the "MAIN SWITCH" button and when the switch pops up to turn off the battery, a blue light indicates power off.
- Remaining battery capacity
- Once the battery is turned on, connect the battery meter to the "COM METER" connector, then the battery meter will light up and show the remaining power, there are eight bar in total. And there will be SOC, voltage, and current displays
- eight bar in total. And there will be SOC, voltage, and current displays.
- 
-

- 

### **Alarm**

The battery may shut down immediately due to over-temperature, over-current, under-voltage, and external short-circuit. When the SOC is 15%, it rings for 10 seconds, which means the battery needs to be charged. When the SOC is 5%, it will sound for 60 seconds. Once this situation occurs, please stop driving immediately and charge the battery as soon as possible.

**Disclaimer:** Once the battery meter sounds an alarm, stop driving and charge the battery as soon as possible. Continue driving will cause the golf cart to suddenly stop. We are not responsible for any loss caused by the sudden stop of driving in this case.

### **Charging**

The LED light of the meter keeps rolling while charging. This battery needs to be used with the designated charger we sell, otherwise, it may cause insufficient charging or battery damage. We are not responsible for any problems caused by this.

- 

-

## **8 WARRANTY REPAIRS/ REPLACEMENTS**

Your Battery is warrantied for SIX years from the date of purchase at retail against defective material or workmanship. We make no warranty other than this limited warranty and expressly exclude any implied warranty including any warranty for consequential damages. This limited warranty is not transferable. Seller warrants this product, if used in accordance with all applicable

instructions, to be free from original defects in material and workmanship within the warranty period. If the product has any failure problem within the warranty period, Seller will repair or replace the product at its sole discretion according to the failure situation

## **WARRANTY REPAIRS/ REPLACEMENTS**

**Your Battery is warrantied for SIX years from the date of purchase at retail against defective material or workmanship.** We make no warranty other than this limited warranty and expressly exclude any implied warranty including any warranty for consequential damages. This limited warranty is not transferable. **Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship within the warranty period.** If the product has any failure problem within the warranty period, Seller will repair or replace the product at its sole discretion according to the failure situation.

## LIMITED WARRANTY

**Save proof of purchase, such as a dated receipt.** This warranty for the unit is extended to the original purchaser or user, and it may cover defects in materials and workmanship. For malfunction due to defects in materials or workmanship six months from the purchase date, we will repair or replace the unit at our discretion after inspection.

This warranty is invalidated if any of the following occurs, but is not limited to:

- Failure to follow instructions in the User's Manual.
- Accidental or unreasonable use, misuse or mishandling, overcharging or loading, or normal wear.
- Unauthorized personnel or modification personnel extend storage time without charging or repairing.
- This warranty is in lieu of all other express warranties. YJC TECHNOLOGY CO.,LTD will not be liable for consequential or incidental damages.