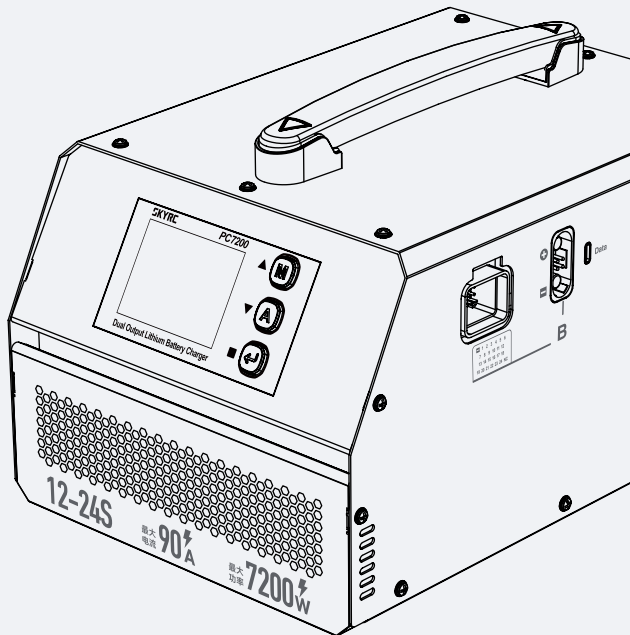


PC7200

v. 33

Dual Output Lithium Battery Charger



Introduction
Manual

SKYRC

Introduction

The PC7200 is a high-performance smart charger equipped with a CAN communication interface and battery balance ports. It is widely compatible with mainstream smart batteries and standard lithium batteries. The charger supports simultaneous charging of two batteries with a maximum output power of 7200W. It offers three charging modes—fast, standard, and maintenance—to meet various charging needs. With an intuitive and easy-to-use interface, it also features built-in short circuit, reverse polarity, and over-temperature protection. Multiple layers of safety protection are designed to provide users with an efficient, convenient, and reliable charging experience.

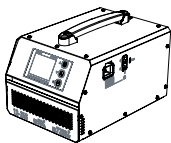
To ensure safe and reliable operation of the device, please confirm the following power conditions:

- **Two independent 16A power outlets are required.**
- **The power wiring and circuit breakers must support a current capacity of 32A or higher.**
- **The outlets and distribution circuits must comply with relevant national or regional electrical safety standards.**
- **An error will be reported when the power supply difference between Channel A and Channel B is too large.**

Features

- Customizable for CAN communication
- Support to 2 packs of 12-24S Lithium Polymer batteries (LiPo / LiHV)
- Three charging modes: Fast Charge, Standard Charge, and Storage
- LCD switchable between English & Chinese
- Enhanced protections: Short-Circuit Protection, Reverse Polarity Protection, and Over-Temperature Protection
- User-defined calibration
- Adjustable charge current
- Adjustable cut-off voltage
- Battery voltage detection
- Adjustable Storage termination voltage
- Firmware upgradable via Type-C port

In the Box



PC7200 Charger *1

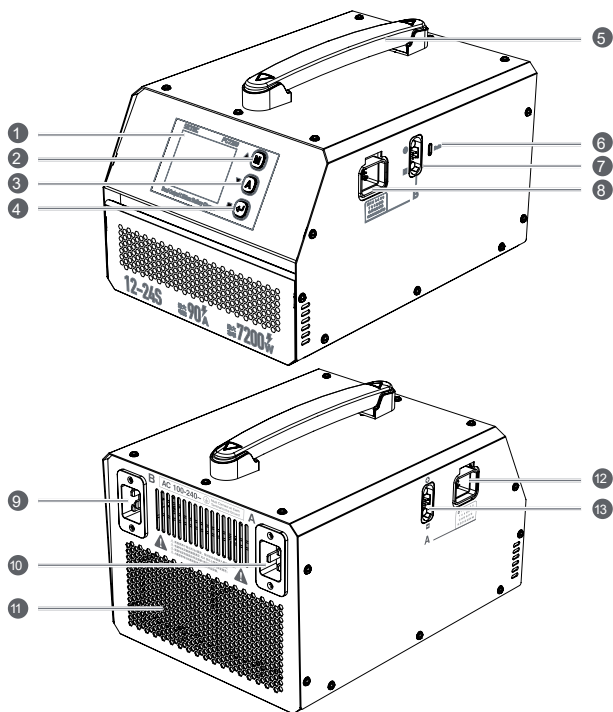


AC power cord *2



Instruction Manual *1

Meet PC7200



1. 2.8-inch Color LCD Display
2. Mode Button (Short press: switch mode)
3. Current Button (Short press: increase current by 5A; long press: rapid +5A increment)
4. Start Button (Short press: start/stop charging; long press: enter system settings)
5. Handle
6. Type-C data interface

7. AS150U Port (Channel A)
8. Balance Port (Channel A)
9. AC: 90V ~ 264V
10. AC: 90V ~ 264V
11. Cooling fan
12. Balance Port (Channel B)
13. AS150U Port (Channel B)

Operating Instructions

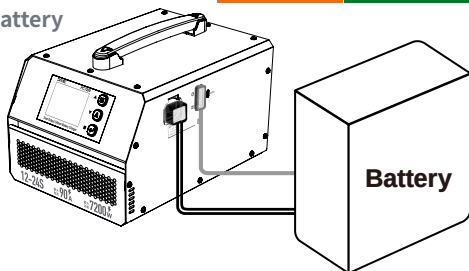
1. Power On

Connect to a power source and turn on the power switch. The LCD screen will display as shown below:

A		LiPo FAST CHG	90 A	B	
1	7	1	7		
2	8	2	8		
3	9	3	9		
4	10	4	10		
5	11	5	11		
6	12	6	12		

2. Connecting the battery

Connect the batteries to the PC7200 charger as shown below:



3. Select charge mode

Short press the 'M' button to select the charging mode: LiPo/LiHV Standard Charge, LiPo/LiHV Fast Charge, or LiPo/LiHV Storage.



Note: When setting the charging mode, ensure the correct battery type (LiPo or LiHV) is selected; incorrect settings may damage the battery and could lead to fire or even an explosion.

A		LiPo STD CHG	45A	B	
1 3.81V	7 3.81V	1 3.81V	7 3.81V		
2 3.81V	8 3.81V	2 3.81V	8 3.81V		
3 3.81V	9 3.81V	3 3.81V	9 3.81V		
4 3.81V	10 3.81V	4 3.81V	10 3.81V		
5 3.81V	11 3.81V	5 3.81V	11 3.81V		
6 3.81V	12 3.81V	6 3.81V	12 3.81V		

Fast Charge:

- When two batteries are connected, the charger prioritizes the battery with the higher voltage. Once it is fully charged, the system automatically switches to the other channel.
- If one battery is connected and charging has started, and another battery is connected midway, the charger will finish charging the first battery before automatically switching to the second channel.
- If only one battery is connected, charging will stop once it is fully charged. If another battery is connected afterward, the charging process for that channel must be started manually.

Standard Charge:

Each channel charges independently, and the two channels can charge batteries with different cell counts.

Storage:

Each channel performs storage independently. The default storage voltages: LiPo 3.85V, LiHV 3.9V.

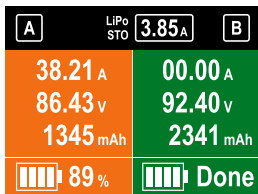
Note: Ensure the correct battery type (LiPo or LiHV) is selected before charging. Incorrect settings may damage the battery and could cause fire or explosion.

4. Select charge current

Short press the 'A' button to increase current by 5A; long press the 'A' button to rapid +5A increment, 1-90A adjustable.

Battery Storage Mode:

If the lithium battery will not be used for an extended period, it is recommended to use Storage Mode and adjust it to the appropriate voltage range for storage based on the battery type, in order to extend battery lifespan.



Cut-Off Voltage Setting:

Long press the Start button for 5 seconds to enter the System Settings menu. Under Task Parameters, you can set and save the desired voltages.

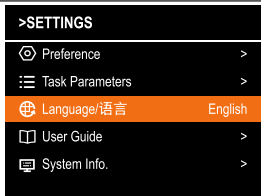
The following voltages are customizable:

- LiHV Cut-off
- LiPo Cut-off
- LiHV Sto. Volt
- LiPo Sto. Volt

> Task Parameters	
LiHV Cut-off	4.35 V
LiPo Cut-off	4.20 V
LiHV Sto. Volt	3.90 V
LiPo Sto. Volt	3.85 V
Safety Timer	OFF

Language Setting

PC7200 supports two languages: Chinese/English. To change the language, long-press the Start button for 5 seconds to enter System Settings, then navigate to Language and select your preferred option. Return to save the settings.



User-Defined Calibration:

Long press the "M" and "A" buttons on the main interface to enter.

"M" and "A" adjust the values. Short press the Start button to switch options, and long press to confirm.

Only the current number of inserted battery cells can be calibrated. Saving without inserted batteries is invalid.

Set Vref		Now Volt	Set Vref		Now Volt
1	3.81V	3.81V	7	3.81V	3.81V
2	3.81V	3.81V	8	3.81V	3.81V
3	3.81V	3.81V	9	3.81V	3.81V
4	3.81V	3.81V	10	3.81V	3.81V
5	3.81V	3.81V	11	3.81V	3.81V
6	3.81V	3.81V	12	3.81V	3.81V
Start		↶	Start		↶

Factory Setting:

Long press the Start button for 5 seconds to enter the System Settings menu. Select Factory Setting, then confirm by choosing YES. The charger will restore factory settings and restart automatically.



Specifications

Operating Voltage	AC: 90V ~ 264V	- To ensure safe and reliable operation of the device, please confirm the following power conditions: - Two independent 16A power outlets are required. - The power wiring and circuit breakers must support a current capacity of 32A or higher. - The outlets and distribution circuits must comply with relevant national or regional electrical safety standards. - An error will be reported when the power supply difference between Channel A and Channel B is too large.
Max. Output Power of Standard Charge Single Channel	AC: 220V~264V	3600W±10%
	AC: 198V~219V	3300W±10%
	AC: 176V~197V	3000W±10%
	AC: 101V~175V	1500W±10%
	AC: 90V~100V	1200W±15%
Max. Output Power of Fast Charge		MAX 7200W ±10%
Battery Types and Cell Count	LiPo/LiHV	12S-24S
Charge Voltage Range	LiPo(Nominal 3.7V)	4.15V-4.25V(Default: 4.20V)> 4.20V Pop-up reminder
	LiHV(Nominal 3.8V)	4.25V-4.50V(Default: 4.35V)> 4.35V Pop-up reminder
Storage Cut-off Voltage	LiPo	3.75V-3.90V(Default: 3.85V) 3.85V±0.05V/The lowest-voltage section (smart battery without balance port)
	LiHV	3.85V-3.95V(Default: 3.90V) 3.9V±0.05V/The lowest-voltage section (smart battery without balance port)
Standard Charge Current (Adjustable)	AC: 176V~264V	1-45A±10% Step 5A Default 45V
	AC: 101V~175V	1-25A±10% Step 5A Default 25V
	AC: 90V~100V	1-20A±10% Step 5A Default 20V
Fast Charge Current (Adjustable)	AC : 176V~264V	1-90A±10% Step 5A Default 90V
	AC : 101V~175V	1-50A±10% Step 5A Default 50V
	AC : 90V~100V	1-40A±10% Step 5A Default 40V

Specifications

Storage Charge Current (Adjustable)	AC : 176V~264V	1-45A±10% Step 5A Default 45V
	AC : 101V~175V	1-25A±10% Step 5A Default 25V
	AC : 90V~100V	1-20A±10% Step 5A Default 20V
Storage Discharge Power		Single Channel 100W(±10W) Main+Balance ports Main port 100W Max
Balance Current	LiPo/LiHV	1000~2000mA
Charge Termination Voltage Tolerance		±0.02V/The highest-voltage section (smart battery without balance port)
Weight		Approx. 9.6kg
Dimensions		291x209x201mm
Working Environment	Working Temperature	0°C ~ 40°C
	Working Humidity	5%~75%RH, no condensation
Storage Environment	Storage Temperature	-10°C ~ 70°C
	Storage Humidity	5%~75%RH, no condensation

Error Messages

Error Messages	Explanation
MAIN PORT BROKEN!	No valid battery voltage detected!
BAT COMM ERR!	Battery protocol does not match charger protocol!
AC INPUT ERROR!	Invalid AC input voltage
BAT TEMP PROT!	Battery over-temperature protection
OPEN-CIRCUIT PROT!	Open-circuit protection (output)
CELL VOLT DIFF!	Excessive cell voltage difference detected
POWER COMM BROKEN!	No power output!
CAPACITY LIMIT!	Charging has reached the set limit.
TIME LIMIT!	The program has timed out!
UNCALIBRATED!	Factory calibration data lost!
REVERSED POLARITY!	Reverse polarity detected
INNER COMM ERROR!	Dual-channel communication error
INNER TEMP ERROR!	The internal temperature is high!

Declaration of Conformity

SkyRC PC7200 complies with all applicable and mandatory CE directives, as well as FCC Part 15 Subpart B requirements.

Warning

These warnings and safety instructions are extremely important. Please strictly follow the instructions in the manual to ensure safety. Improper operation may damage the charger and battery, and in severe cases, may cause a fire.

- Do not use the charger unattended. If any abnormal function occurs, immediately stop charging and refer to the manual to identify the cause.
- Keep the charger away from dust, moisture, rain, high temperatures, direct sunlight, and strong vibrations. Do not drop or impact the charger.
- The charger supports an AC input voltage of 100-240V.
- Place the charger on a heat-resistant, non-flammable, and insulated surface. Do not place it on car seats, carpets, or similar locations. Ensure that flammable or explosive materials are kept away from the charger's operating area.
- Ensure that you fully understand the specifications of the battery being charged/discharged and that the charger settings match the battery.

Incorrect settings may damage both the charger and the battery. Overcharging may cause a fire or even an explosion.

Do not charge or store the following types of batteries:

- Battery packs composed of different models (including those from different manufacturers).
- Batteries that are already fully charged or only slightly discharged.
- Batteries that can no longer be charged (may cause explosions).
- Batteries with special charging technology requirements.
- Damaged or defective batteries.
- Batteries with built-in combination circuits or protection circuits.
- Batteries installed in other devices or connected to additional components.
- Rechargeable batteries not confirmed by the manufacturer as suitable for the charger's current capacity.

Before starting the charging process, always check the following three points:

- Have you selected the appropriate program settings?
- Have you set the correct charging current?
- Are all connections secure? Ensure there is no poor contact in the wiring.

During charging, the amount of energy delivered to the battery can be calculated by multiplying the charging current by the charging time. The allowable charging current varies depending on the type and performance of the battery, and this information is typically provided by the battery supplier. If the supplier does not explicitly state that the battery can be charged at a high rate, please use the normal charging rate.

Connecting the battery to the charger terminals: The red wire is the positive terminal, and the black wire is the negative terminal. Due to differences in wire and connector resistance, the charger cannot detect the internal resistance of the battery pack. For the charger to function properly, the connector must have a sufficiently large conductor cross-section and high-quality gold-plated terminals.

Refer to the battery manufacturer's manual for charging methods, and follow their recommended charging current and time. This is especially critical for lithium batteries, which must be charged strictly according to the manufacturer's instructions.

- Pay close attention to the wiring of lithium batteries.
- Do not disassemble the battery pack arbitrarily.

It must be emphasized that lithium battery packs can be connected either in series or in parallel. When connected in parallel, the total battery capacity is calculated by multiplying the capacity of a single cell by the number of cells, while keeping the total voltage constant. If the voltage is unbalanced, it may cause a fire or even an explosion. Therefore, we generally recommend charging lithium batteries in series.

The charger is suitable for individuals aged 14 and above. Those with behavioral or mental disabilities, or those lacking experience, should use the charger under supervision or guidance. Children should not play with the charger. Children should not clean or maintain the charger without supervision.

If the power cord is damaged, please return it to the manufacturer, supplier, or a qualified technician for replacement to avoid potential hazards.

Liability Exclusion

This charger is designed and approved exclusively for use with the types of the battery stated in this Instruction Manual. SkyRC accepts no liability of any kind if the charger is used for any purpose other than that stated. We are unable to ensure that you follow the instructions supplied with the charger, and we have no control over the methods you employ for using, operating and maintaining the device.

For this reason we are obliged to deny all liability for loss, damage or costs which are incurred due to the incompetent or incorrect use and operation of our products, or which are connected with such operation in any way. Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of those SkyRC products that were immediately and directly involved in the event in which the damage occurred.

Warranty and Service

We guarantee this product to be free of manufacturing and assembly defects for one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes. This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification, or as a result of failure to observe the procedures outlined in this manual.

Note

The warranty service is valid in China only.

If you need warranty service overseas, please contact your dealer in the first instance, who is responsible for processing guarantee claims overseas. Due to high shipping cost, complicated custom clearance procedures to send back to China. Please understand SkyRC can't provide warranty service to overseas end users directly. If you have any questions which are not mentioned in the manual, please feel free to send email to support@skyrc.com.



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<https://www.skyrc.com>

If you have any questions about this document, please contact SkyRC by sending a message to **support@skyrc.com**

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