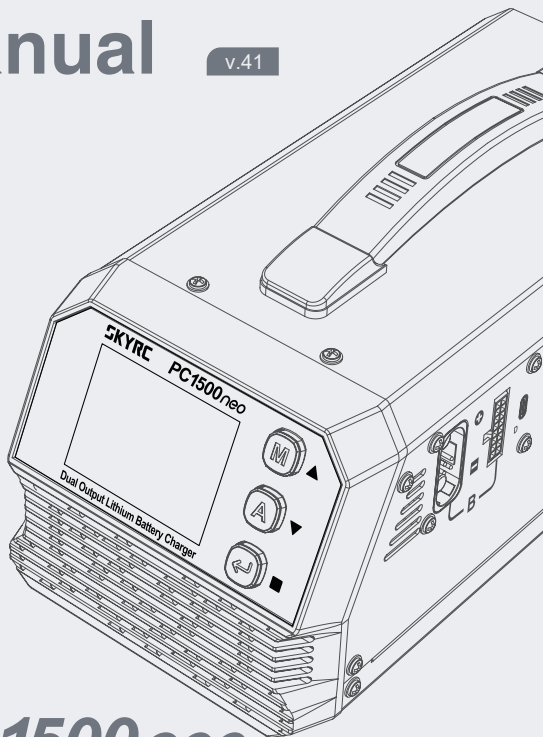


Instruction Manual

v.41

SKYRC

DC001



PC1500neo

Dual Output Lithium Battery Charger

INTRODUCTION

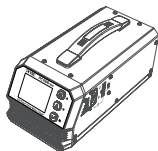
SkyRC PC1500neo is a smart charger that equipped with CAN communication and battery balancing ports. This charger can support mainstream smart batteries and ordinary lithium batteries, and can connect and charge two batteries simultaneously. The charger's MAX output power is up to 1500W. It has three working modes of Fast Charge, Standard Charge and Storage. It is easy and convenient to operate, providing users with a better experience.

Please carefully read the operating instructions and safety warnings before use it.

FEATURES

- Support customization for CAN communication.
- Support 2 packs of 12-14S LiPo/LiHV/Li-ion batteries.
- Remember the last charging current and mode. (LiPo battery only)
- Maximum safety of short circuit protection, reverse polarity protection & over-temperature protection.
- Three working modes of Fast Charge, Standard Charge, and Storage.
- Adjustable Charging current.
- Adjustable Charging cutoff voltage.
- Battery voltage detection.
- Supports Chinese & English languages.
- Can connect to a PC and charger via Type-C for firmware upgrades.

In the Box



PC1500neo Charger*1

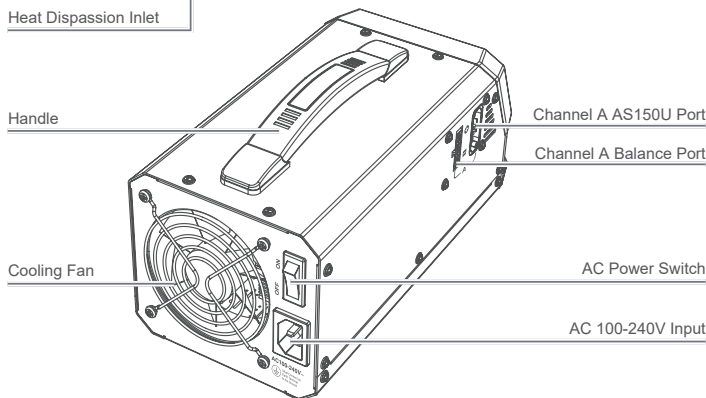
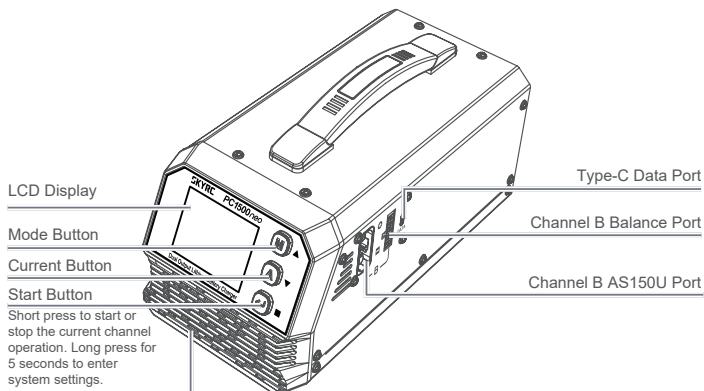


AC Power Cord*1



Instruction Manual*1

GETTING TO KNOW PC1500neo

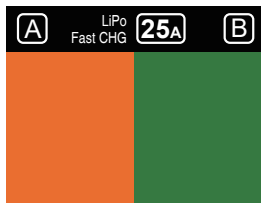


OPERATION PROCEDURE

Please make sure the AC power is well-grounded before using and strictly follow the operating procedures below. The charger can connect up to 2 batteries.

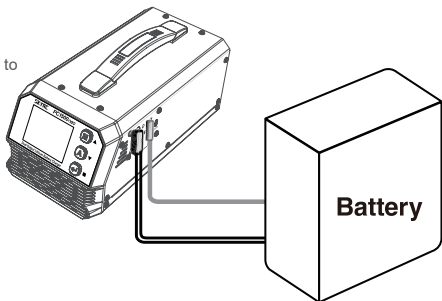
1. Power on

Connect AC power, LCD displays the following interface



2. Connect the Battery

Please follow the diagram below to connect the battery



3. Select the Charge Mode

Short press the "mode" button to select: LiPo Standard/Fast/Storage; LiHV Standard/Fast/Storage; Li-ion Standard/Fast/Storage



Note: Ensure correct battery type (LiPo/LiHV/Li-ion) when setting charging mode. Incorrect settings may damage batteries and cause fire or explosion.

A		LiPo Fast CHG		25A	B	
1 3.81V	8 3.89V	1 3.81V	8 3.89V		1 3.81V	8 3.89V
2 3.89V	9 3.79V	2 3.89V	9 3.79V		2 3.89V	9 3.79V
3 3.79V	10 3.77V	3 3.79V	10 3.77V		3 3.79V	10 3.77V
4 3.77V	11 3.75V	4 3.77V	11 3.75V		4 3.77V	11 3.75V
5 3.75V	12 3.80V	5 3.75V	12 3.80V		5 3.75V	12 3.80V
6 3.80V	13 3.80V	6 3.80V	13 3.80V		6 3.80V	13 3.80V
7 3.80V	14 3.80V	7 3.80V	14 3.80V		7 3.80V	14 3.80V

Fast Charge: Charge higher voltage channel first, then lower one

Standard Charge: Charge lower voltage channel close to higher one first, then charge both channels simultaneously

Storage: Charge & Discharge at the same time, following standard charge logic

4. Select current

Short press the "current" button to select: Adjustable range: 1–25A, step: 1A

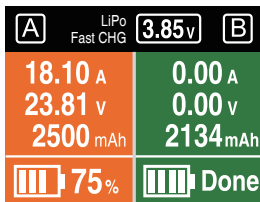
STORAGE MODE

If a Lithium battery will not be used for a long time, it's highly recommended to use Storage mode. Adjust to the appropriate voltage range according to the battery type to extend battery life.

LiPo: 3.75V~3.90V

LiHV: 3.85V~3.95V

Li-ion: 3.70V~3.85V



CUT-OFF VOLTAGE SETTING

Long press the "start" button for 5 seconds to enter system settings, select "TASK SETTING", set the desired cut-off voltage, then save the settings.

Customizable Cut-off Voltage:

- LiPo Cut-off Voltage
- LiHV Cut-off Voltage
- Li-ion Cut-off Voltage
- LiPo Storage Voltage
- LiHV Storage Voltage
- Li-ion Storage Voltage

System Setting	
LiPo Cut-off Voltage	3.83 V
LiHV Cut-off Voltage	3.84 V
Li-ion Cut-off Voltage	3.85 V
LiPo Storage Voltage	3.86 V
LiHV Storage Voltage	3.87 V
Li-ion Storage Voltage	

LANGUAGE SETTING

PC1500neo supports both Chinese and English languages. Long press the "start" button for 5 seconds to enter system settings, open "Language/语言", select your preferred language, then save the settings.

System Setting	
Preference	>
Task Parameters	>
Language/语言	English
User Guide	>
System Info	>
Factory Reset	
Back	

FACTORY RESET

Long press the "start" button for 5 seconds to enter system settings. Select "Factory Reset" and confirm with "YES". The charger will restore to factory default settings and restart automatically.

> Factory Setting

Restore Factory Setting?

YES

NO

ERROR MESSAGES

Charging Malfunction	Explanation
MAIN PORT BROKEN	No valid battery voltage detected by the charger
COMM BROKEN	Communication Error
OUTPUT OPEN-CIRCUIT PROTECTION	Charger internal output open-circuit protection
CELL VOLT DIFF	1. Cell voltage difference > 600mV 2. Single cell voltage 150mV higher than cut-off voltage
BAL PORT ERROR	1. The voltage difference is higher than 300mV between the highest and the lowest one when the single-cell voltage is higher than 3.8V 2. The voltage difference is higher than 300mV, the connection is not good, please connect again
BAL PORT OVER	Charger detected battery balance voltage out of range
HI POWER TEMP	Internal power over-temperature protection
HI DC VOLT	Internal power over-voltage protection
AC INPUT ERROR	Charger AC input voltage is out of range
POWER COMM BROKEN	No output from internal power supply
SHORT PORT	Internal power supply output short-circuit protection
BAT TEM PORT	Battery over-temperature protection
BAL MISMATCH	Check if you are charging 12S & 14S batteries simultaneously, the cell number must be the same on the two channels
REV POLARITY	Check if the battery cable polarity is connected reversely

SPECIFICATIONS

Operating Voltage	AC	100V~240V 50/60Hz
Operating Current	AC: 220V	8A Max
	AC: 120V	7A Max
Maximum Charging Output Power	AC 220V Input	1500W $\pm 10\%$
	AC 120V Input	600W $\pm 10\%$
Charging Mode		Fast Charge/Standard Charge/Storage
Supported Battery Types and Cell Counts	LiPo/LiHV/Li-ion	12S~14S
Charging Current (AC 220V)	Standard Charge	1A~25A Default 25A Single channel output 1A~13A Dual-channel output 5A~25A
	Fast Charge	1A~25A Default 25A (Single channel output)
	Storage	1A~25A Default 25A Single channel output 1A~13A Dual-channel output 5A~25A
Charging Current (AC120V)	Standard Charge/Fast Charge/Storage	1A~13A Default 13A Single channel output 1A~13A Dual-channel output 5A~13A
Storage Discharge Power	Main Port	Rated 60W(± 10 W)
	Balance Port	115W Max
Balance Current		Rated 1200mA (Range: 700mA~1500mA)
Standard Charge Cut-off Voltage	LiPo	4.15V~4.25V Default: 4.20V
	LiHV	4.25V~4.50V Default: 4.35V
	Li-ion	4.05V~4.25V Default: 4.20V
Fast Charge Cut-off Voltage	LiPo	4.15V~4.25V Default: 4.20V
	LiHV	4.25V~4.50V Default: 4.35V
	Li-ion	4.05V~4.25V Default: 4.20V
Storage Cut-off Voltage	LiPo	3.75V~3.90V Default: 3.85V
	LiHV	3.85V~3.95V Default: 3.90V
	Li-ion	3.70V~3.85V Default: 3.80V
Size	Length×Width×Height	265x115x132mm
Weight	Net Weight	3.2kg
Working Environment	Working temperature	0°C~40°C
	Working humidity	5%~75% RH, non-condensing
Storage Environment	Storage temperature	-10 °C~70°C
	Storage humidity	5%~75% RH, non-condensing

WARNING

These warnings and safety notes are particularly important. Please follow the instructions for maximum safety. Otherwise, the charger and the battery can be damaged, or at worst, it can catch fire.

Never leave the charger unattended when it is connected to its power supply. If any malfunction occurs, **TERMINATE THE PROCESS AT ONCE** and refer to the operation manual.

Keep the charger well away from dust, moist, rain, heat, direct sunshine and vibration. Do not bump the charger.

The allowable AC input voltage is AC 100-240V. Please make sure the electric generator can provide stable voltage and power if using outdoors. The significant voltage fluctuation will damage the charger; please use a voltage regulator if needed.

This charger and the battery should be put on a heat-resistant, non-flammable and non-conductive surface. Never place them on a car seat, carpet, or the like. Keep all the inflammable and volatile materials away from the operating area.

Make sure you know the battery's specifications to ensure it meets this charger's requirements. If the charger is programmed incorrectly, the battery and charger may be damaged. It can cause fire or explosion due to overcharging.

Never attempt to charge or discharge the following types of batteries

- A battery pack that consists of different types of cells (including different manufacturers);
- A battery already fully charged or just slightly discharged;
- Non-rechargeable batteries (Explosion hazard);
- A battery requires a different charge technique;
- A faulty or damaged battery;
- A battery fitted with an integral charge circuit or a protection circuit;
- Batteries installed in other devices or connected to other parts;
- Batteries that are not expressly stated by the manufacturer to be suitable for the currents the charger delivers during the charging process.

Please bear in mind the following points before charging:

- Did you select the appropriate program suitable for the battery type you are charging?
- Did you set up adequate current for charging?
- Have you checked that all connections are firm and secure? Make sure there are no intermittent contacts at any point in the circuit.

Charging

- During the charging process, a specific quantity of electrical energy is fed into the battery. The charge capacity is calculated by multiplying charge current by charge time. The maximum permissible charge current varies depending on the battery type or its performance and can be found in the battery manufacturer's information. Only batteries expressly stated to be capable of quick-charge are allowed to be charged at rates higher than the standard charge current.
- Connect the battery to the terminal of the charger. Red is positive and black is negative. Due to the difference between cable and connector resistance, the charger cannot detect the battery pack's resistance. The charger's essential requirement to work properly is that the charge lead should be of adequate conductor cross-section and that high-quality connectors that are typically gold-plated should be fitted to both ends.
- Always refer to the battery manufacturer's manual about charging methods, recommended

charging current and charging time. Especially, the lithium battery should be charged strictly according to the charging instruction by the manufacturer.

- Special attention should be paid to the connection of lithium batteries.
- Do not attempt to disassemble the battery pack arbitrarily.
- It must be emphasized that lithium battery packs can be connected 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 the total voltage remains unchanged. Voltage imbalance may cause fire or explosion, so we generally recommend charging lithium batteries in series.

The charger is not suitable for children under 14 years old. People with behavior disturbance, mental disorder, or no experience should use it under supervision and guidance. Children are forbidden to play with it. They are also NOT allowed to clean and maintain the device without supervision.

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

COMPLIANCE STATEMENT

The SkyRC PC1500neo complies with all relevant and mandatory CE directives and the requirements of Part 15 Subpart B of FCC.

EXCLUSION OF LIABILITY

This charger is designed and approved exclusively for use with the battery types 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. We have no control over the methods you employ for using, operating and maintaining the device.

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<https://www.skyrc.com>

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