

# Instruction Manual

Version: 1.0

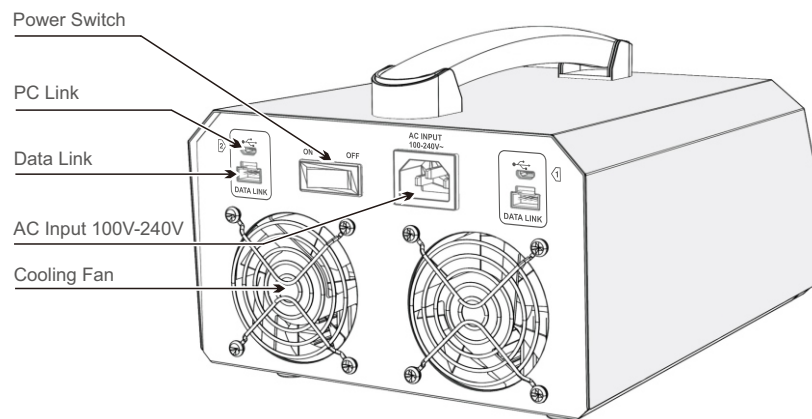
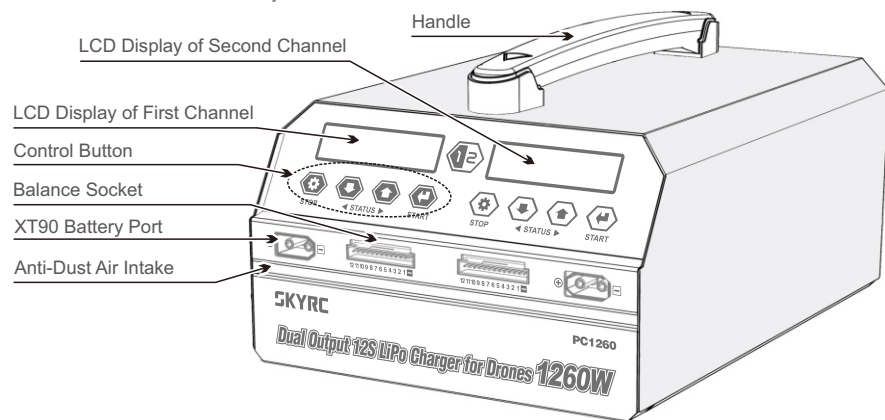
## Dual Channel 12S LiPo Professional Balance Charger

SK-100138

### INTRODUCTION

SkyRC PC1260 is a dual channel LiPo battery charger, which is capable of balance charging 2 packs of 12 cell LiPo batteries simultaneously. There are three working modes, fast charge, balance charge and storage.

PC1260 is easy to operate, and its Master-Slave mode can help avoid unnecessary settings. With this mode available, pieces of PC1260 charger units are able to be connected and controlled for synchronous settings through data cables, thus significantly saving time for setting. In addition, PC1260 has short-circuit, reverse polarity and over-heat protection to ensure maximum safety.



### FEATURES

- Support charging 2 packs of 12s LiPo batteries simultaneously
- Support LiPo high voltage (LiHV) battery
- Memorizing last charging current
- Three working modes: fast charge, balance charge & storage
- Master-Slave mode available
- Synchronize 2 or more chargers via data cable
- Maximum safety: short circuit protection, reverse polarity protection & over heat protection
- Adjustable charge current (1.0-12.0A)
- 2x16 LCD screen
- Battery voltage meter
- Battery internal resistance meter
- Firmware upgrade via USB port

### SPECIFICATIONS

- Input Voltage: 100-240V
- Output Power: 1260W (630W\*2)
- Discharge Power: 100W (50W\*2)
- Charge Current: 1.0-12.0A\*2
- Balance Current: 1.5A
- Battery Type: LiPo/LiHV
- Battery Cell: 12S\*2
- Working Mode: Fast charge / Balance charge / Storage
- Size: 272\*202\*118.6mm
- Weight: 4.88kg

### OPERATION PROCEDURE

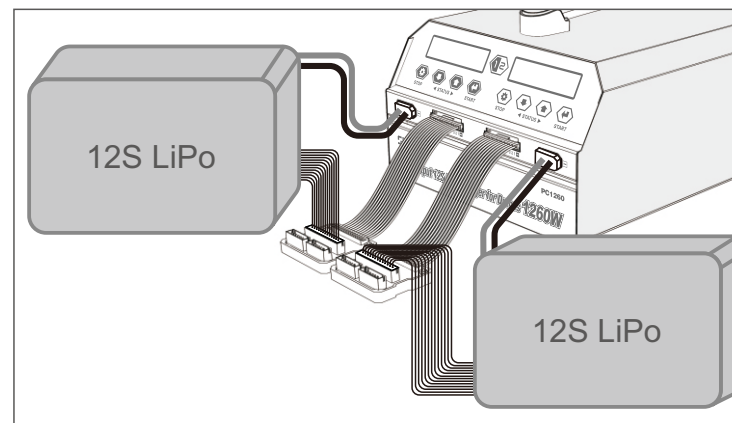
1) Power on: connect to the power source and turn on the power switch. A beep sound will be heard, and the LCD screen will be displayed as below:



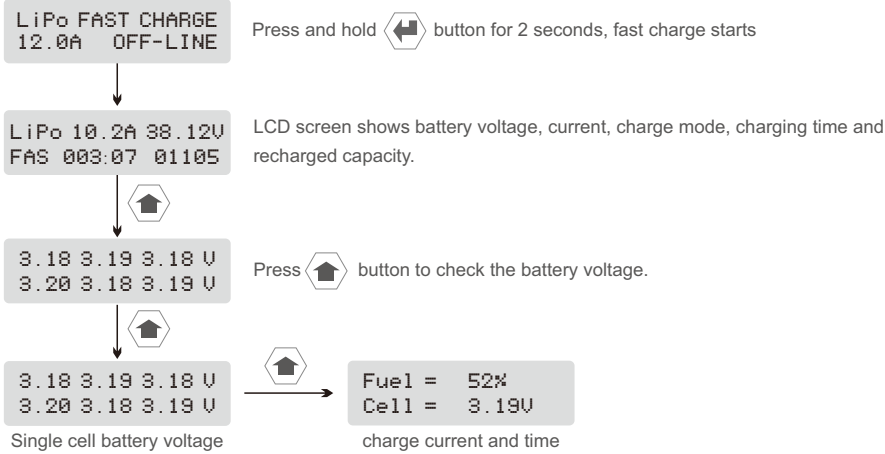
2) Battery connection: Please connect your batteries to PC1260 charger as below:

- ① Connect to the 12S battery balance board
- ② Connect to the battery

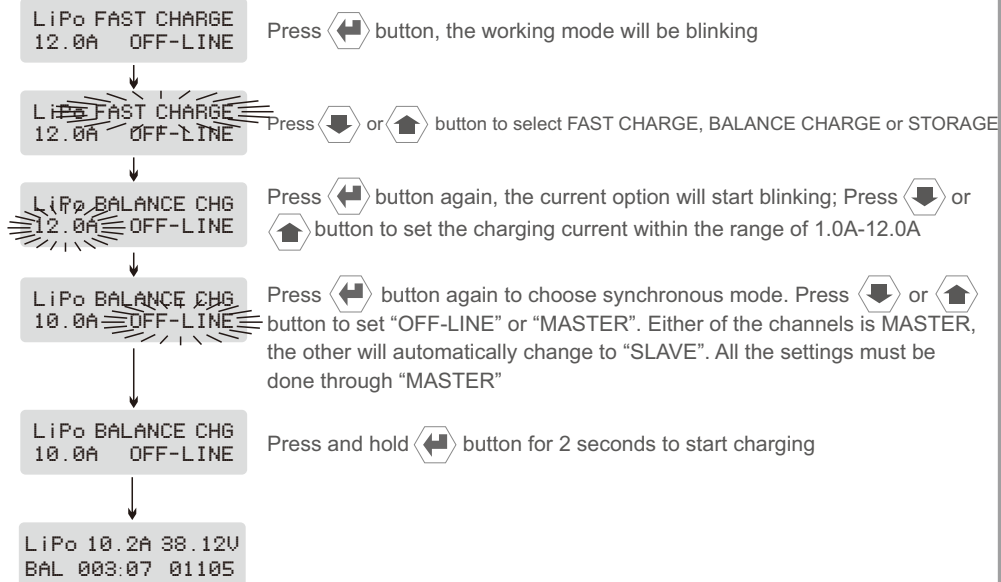
(Note: Be aware that the Lithium battery to be charged should be 12 cells. Make sure the battery balance lead and charging lead are connected correspondingly to the charger)



### 3) One-Button-Charge Operation :

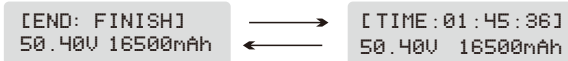


### 4) Parameters Settings :



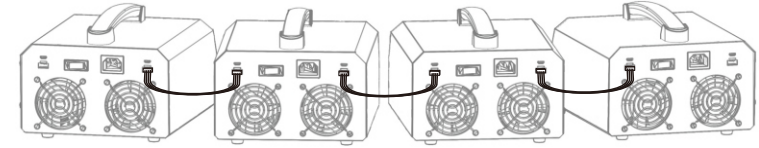
5) Stop: During the charging process, press button if you like to terminate the charging. Under Master-Slave mode, any operation must be carried out through the Master channel.

6) Finish: In charging mode, when the charging process finishes, the screen will be displayed as below:



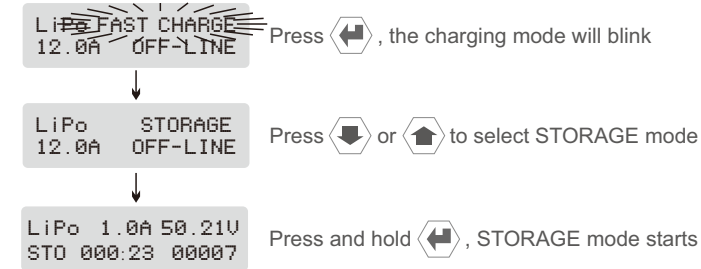
### SYNCHRONIZATION

PC1260 charge can be synchronized via data cables. Below illustrates how to charge 8 batteries of the same type. Make sure all the chargers are set to "OFF-LINE" first. If a certain channel is selected as "MASTER" channel, then the other channels will be "SLAVE". The settings on "MASTER" can be applied to all the chargers, which saves your time significantly.



### STORAGE

If a Lithium battery is not used for long time, it's highly recommended to charge or discharge the battery to 3.9V with STORAGE mode so as to extend the battery Life. If the battery voltage is higher than 3.9V, the charger will discharge the battery; If the battery voltage less than 3.9V per cell, the charger will charge the battery under STORAGE mode.

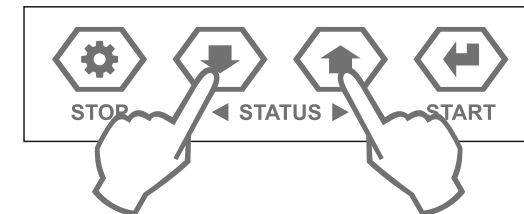


### SWITCH BETWEEN LIPO AND LIHV

PC1260 supports LiPo, terminal voltage of which is 4.2V and LiHV, terminal voltage of which is 4.35V.

#### How to switch between LiPo and LiHV?

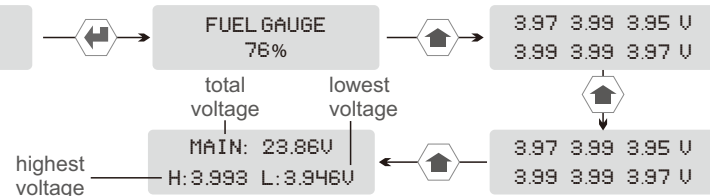
Press and hold and at the same time for 5 seconds until the corresponding battery type appears on the screen.



**Note:** This function must be used with caution, as charging incorrect type of battery will damage the battery, or even cause fire or explosion.

## BATTERY VOLTAGE METER

Press few times until the screen displays the battery meter. This function can detect the remaining capacity, battery voltage per cell, total voltage, highest voltage & lowest voltage



## BATTERY RESISTANCE METER

Battery resistance is a major technical index of battery performance. Normally low resistance means great discharge capacity, or the otherwise.

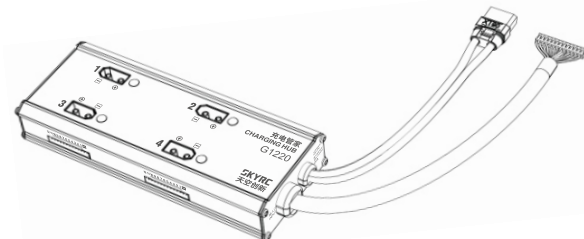
After long-term usage, activity of internal chemicals will decrease, while internal resistance will increase. Detecting battery internal resistance could help better understand battery health condition.

Press few times until the screen displays the battery resistance meter. This function can detect internal resistance per cell and total resistance.



## G1220 CHARGING HUB

G1220



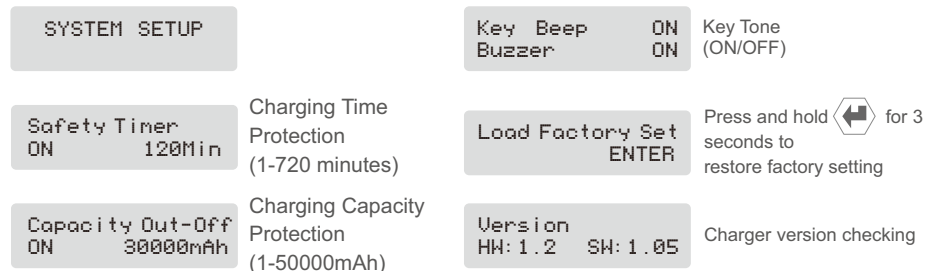
SK-600125-01

Press button to enter into G1220\* interface, then connect G1220 charging hub to PC1260 charger.

\* G1220 is an optional part, which is not included in the package.

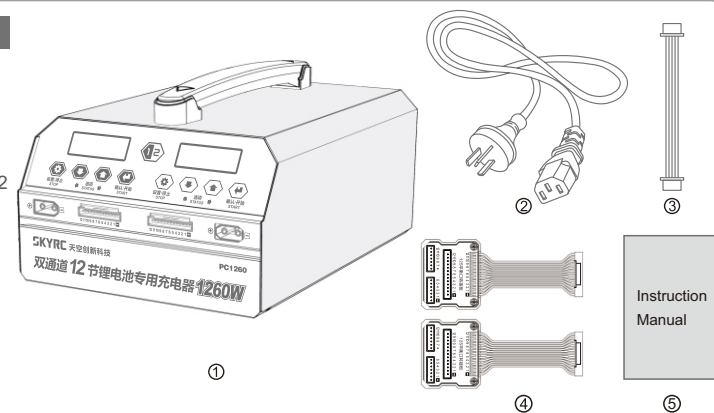
## SYSTEM SETUP

Press few times until the screen displays the system setup.



## PACKAGING CONTENT

- ① Pc1260 Charger Unit \*1
- ② Power Cord \*1
- ③ Data Cable \*1
- ④ 12S Battery Balance Board \*2
- ⑤ Instruction Manual \*1



## OPTIONAL PARTS \* (Below parts are excluded in the package)

AS150 (Male connector with female case)



SK-600119-03

AS150 (Female connector with male case)



SK-600119-04

AS150 (Female connector with male case) + XT150 Male connector



SK-600119-05

## ERRORS

Message	Analysis
NO BATT DETECTED	Check if the connection between battery main port and charger is correct Check if the battery main port voltage is normal
CELLS VOLTAGE HI CHECK MAIN PORT	Check if the voltage of battery main port and balance port is normal
CONNECT ERROR CHECK MAIN PORT	Check if the connection between battery balance port and charger is correct Check if the balance port voltage is normal
BATTERY WAS FULL	Check if the battery is already fully charged
REVERSE POLARITY	Check if the battery polarity is reversed
INT. TEMP TOO HI	Check if the fan works normally, or the environmental temperature is high
OVER CHARGE CAPACITY LIMIT	Charging capacity is beyond default setting or user setting
OVER TIME LIMIT	Charging time is beyond default setting or user setting

## WARNING AND SAFETY PRECAUTIONS

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 is found, **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.
- ⚠ Never drop it.
- ⚠ The allowable AC input voltage is AC 100-240V.
- ⚠ This charger and the battery should be put on a heat-resistant, non-inflammable 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 specifications of the battery to be charged or discharged to ensure it meets the requirements of this charger. If the program is set up 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 which 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 charge process.

### ⚠ Please bear in mind the following points before beginning charging:

Did you select the appropriate program suitable for the type of battery 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 charge 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 information provided by the battery manufacturer. Only batteries that are 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 resistance of cable and connector, the charger cannot detect resistance of the battery pack. The essential requirement for the charger to work properly is that the charge lead should be of adequate conductor cross-section and that high quality connectors which are normally gold-plated should be fitted to both ends.

Always refer to the manual by the battery manufacturer about charging methods, recommended charging current and charging time. Especially, the lithium battery should be charged strictly according to the charging instruction provided by the manufacturer.

Special attention should be paid to the connection of lithium battery.

Do not attempt to disassemble the battery pack arbitrarily.

Be aware that lithium battery packs can be wired in parallel or in series. When the battery is connected in parallel, its capacity is calculated by multiplying the single battery capacity by the number of cells with the total voltage staying the same. Voltage imbalance may cause fire or explosion. Lithium battery is recommended for charging 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 the supervision and guidance. Children are forbidden to play with it. They are also NOT allowed to clean and maintain the device without the supervision.
- ⚠ If the power cord is damaged, please return it back to the factory, supplier or technicians for replacement for fear of danger.

## CONFORMITY DECLARATION

PC1260 satisfy all relevant and mandatory CE directives and FCC Part 15 Subpart B: 2016. For EC directives: The product has been tested to meet the following technical standards:

Test Standards	Title	Result
EN 55014-1:2006+A1:2009+A2:2011	Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	Conform
EN 55014-2:2015	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity Product Family Standard	Conform
EN 61000-3-2:2014	Electromagnetic Compatibility (EMC) Part 3-2: Limits for harmonic current emissions(Equipment input current up to and including 16A per phase)	Conform
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage supply systems for equipment with rated current ≤16 A.	Conform
EN 60335-1: 2012+A11: 2014	Requirements for household appliances, electric tools and similar apparatus - Safety - Part 1: General requirements	Conform
EN 60335-2-29: 2004+A2: 2010	Requirements for household appliances, electric tools and similar apparatus - Safety - Part 2-29: Particular requirements for battery chargers	Conform
EN 62233: 2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	Conform



This symbol means that you must dispose of electrical from the General household waste when it reaches the end of its useful life. Take your charger to your local waste collection point or recycling centre. This applies to all countries of the European Union, and to other European countries with a separate waste collection system.

## Liability exclusion

This charger is designed and approved exclusively for use with the types of 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 which 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 a period of 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:

1. The warranty service is valid in China only.
2. 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 user directly.
3. If you have any questions which are not mentioned in the manual, please feel free to send email to [info@skyrccn](mailto:info@skyrccn)



All specifications and datas are subject to change without notice.

Manufactured by  
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