

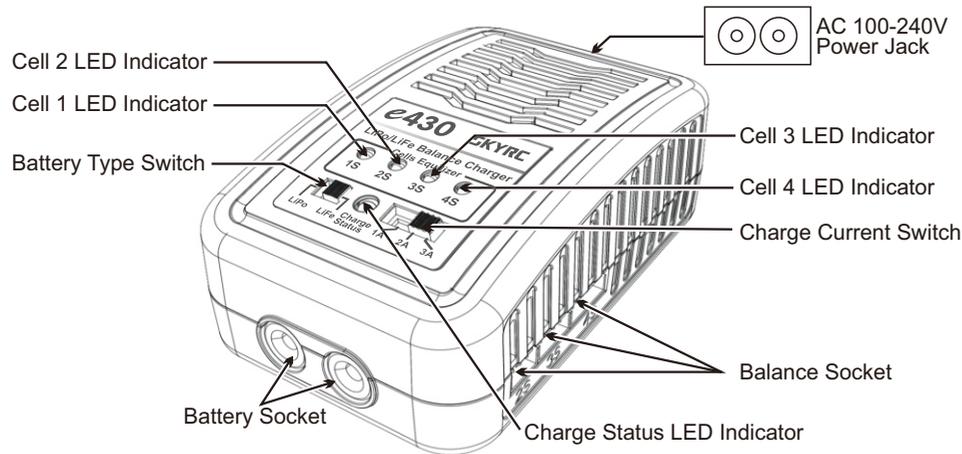
SKYRC e430 INSTRUCTION MANUAL

SK-100107

INTRODUCTION

Thank you for your choice of the SKYRC e430, 100-240V AC balance charger. This unit is simple to use but its operation does require some knowledge on the part of the user. Please read this entire operating manual completely and attentively before using this product, as it covers a wide range of information on operating and safety.

SKYRC e430 Charger is an economic, high quality 100-240V AC balance charger, designed for charging LiPo and LiFe batteries from 2-4 cells in balance mode. The circuit power is 30W and max charge current can reach to 3A. There are three kinds of charge current 1A/2A/3A that can be selected. You could select the proper charge current according to battery capacity.



CHARGE PROCEDURES

SKYRC e430 comes with the built in power supply. You can connect the AC power cord to the AC socket (100-240V AC) directly.

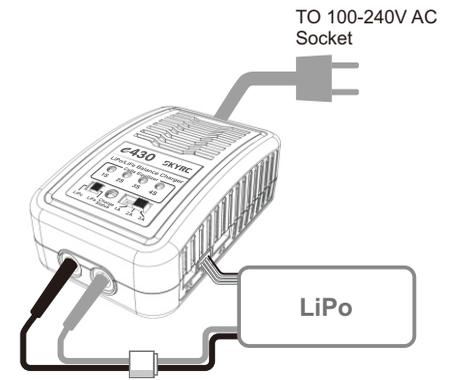
Please refer to following steps to charge the battery,

- 1) Insert the AC power cord into the charger.
- 2) Insert the AC cord into a wall socket (100-240V). All LEDs will light for 1 second and the charge status LED will flash green which indicates the charger is ready to charge.
- 3) Select the battery type LiPo/LiFe by the slide switch.
- 4) Select the proper charging current 1A/2A/3A by the slide switch.
- 5) Connect the battery main charge lead to battery socket which is in the front side of the charger and battery balance wire to balance port which is in the right side of the charger.
- 6) The charger starts charging. The charge status LED and the cell status LED will glow constant red. If the battery pack is 2-cell, Cell 1 and Cell 2 LEDs will glow constant red; if the battery pack is 3-cell, Cell 1, Cell 2 and Cell 3 LEDs will glow constant red; and so on.
- 7) During the charging progress, when the charge status LED glows constant red, the charger is charging in CC mode; when the charge status LED glows constant orange, the charger is charging in CV mode;

- 8) When the cell LED is flashing, this cell is discharging for balancing.
- 9) When the battery is fully charged, the charge status LED will glow constant green.
- 10) Unplug the battery from the charger and the charge status LED will flash green which indicates the charger is ready to charge another battery.

CAUTION:

This diagram shows the correct way to connect your battery. Failure to connect as shown in this diagram will damage this charger.



CONNECTION DIAGRAM

EXPLANATION OF LED STATUS

Charge Status LED	LED green blinking	The charger is ready to charge.
	LED glows constant red	The charger is charging in CC mode.
	LED glows constant orange	The charger is charging in CV mode.
	LED glows constant green.	The charging process finishes.
Cell Status LED	LED glows constant red.	The cell is charging.
	LED flashes red	The cell is discharging.

* Error Message

If there is an error, the charge status LED and one of the cell LED will blink in sequence.

LED Status	Error Message
Charge Status LED + Cell 1 LED	The voltage difference among cells is too big (more than 300mV)
Charge Status LED + Cell 2 LED	Wrong connection
Charge Status LED + Cell 3 LED	Low Voltage Protection($\leq 2.5V$)

Cell LED will blink simultaneously

Charge Status Cell 1+2+3+4 LED	The whole charging process exceeds 5 hours.
Cell 1+2 LED	Battery type changed while charging.

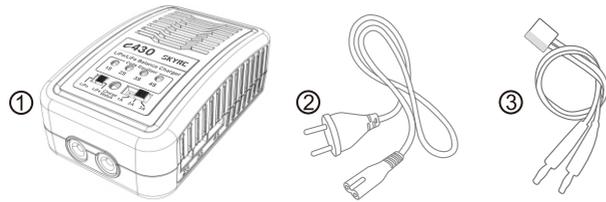
In this case, please disconnect the power cord from the wall socket and unplug the battery from the charger.

SPECIFICATION

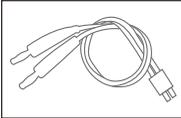
AC Input	100-240V
Battery Type	LiPo/LiFe
Cell Count	2-4 cells
Charge Current	1A/2A/3A $\pm 10\%$
Cell Terminate Voltage	LiPo: 4.2V $\pm 0.02V$ / LiFe: 3.6V $\pm 0.02V$
Circuit Power	30W
Current Drain for Balancing	200mA
Dimension	69.4x110.7x40.5mm
Weight	193g

THE SET CONTAINS

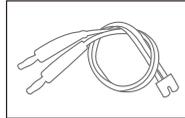
- ① SkyRC e430 Charger
- ② AC Power Cord
- ③ 18AWG Wire Charging Cable



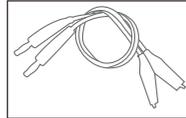
RECOMMENDED ACCESSORIES



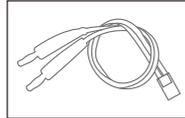
Tamiya charging cable
5201-0030-01



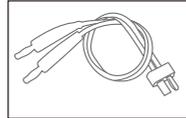
EC3 charging cable
5201-0034-01



Crocodile clip
charging cable
5201-0031-01



JST/BEC charging cable
5201-0043-01



Dean charging cable
5203-0016-01

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.

You will be required to produce proof of purchase (invoice or receipt). 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

LIABILITY EXCLUSION

This charger is designed and approved exclusively for use with the types of battery stated in these 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.

WARNING AND SAFETY NOTES

- This charger is not intended for use by persons (include children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similar qualified persons in order to avoid a hazard.
- This charger is suitable for charging rechargeable LiPo/LiFe batteries. Do not attempt to recharge non-rechargeable batteries. Charging other types of batteries may cause fire or explosion.
- Never leave the charger unattended when it is connected to its power supply.
- The allowable AC input voltage is 100-240V AC. Never connect it to any other voltage.
- Protect charger from dust, dirt and damp.
- Never place the charger and batteries connected to it on any form of flammable surface. Never operate the charger in the vicinity of inflammable material or gas.
- During charging, the battery must be placed in a well ventilated area. Never place the charger on a carpet or similar surface.
- Take great care to maintain correct battery polarity, and avoid short-circuit. Read the battery manufacturer's instructions and adhere to them strictly.
- The charger must only be plugged into an earthed socket-outlet (for portable class 1 battery chargers for outdoor use)
- The connection to the supply mains is to be in accordance with the national wiring rules when battery chargers for installation in caravans and similar vehicles.

CONFORMITY DECLARATION

SKYRC e430 satisfies all relevant and mandatory CE directives and FCC Part 15 Subpart B: 2014.

The product has been tested to meet the following technical standards:

	Test Standards	Title	Result
CE-LVD	EN 60335-1: 2012 +A11: 2014	Household and similar electrical appliances - Safety - Part 1: General requirements	Conform
	EN60335-2-29	Household and similar electrical appliances - 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
CE-EMC	EN55014-1	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission	Conform
	EN55014-2	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity Product Family Standard	Conform
	EN61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: – Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	Conform
	EN61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage supply systems for equipment with rated current ≤ 16 A.	Conform
FCC-VOC	47 CFR Part 15	Radio frequency devices	Conform



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased.

They can take this product for environmental safe recycling.



Manufactured by
SKYRC TECHNOLOGY CO., LTD.
www.skyrc.com