

INSTRUCTION MANUAL

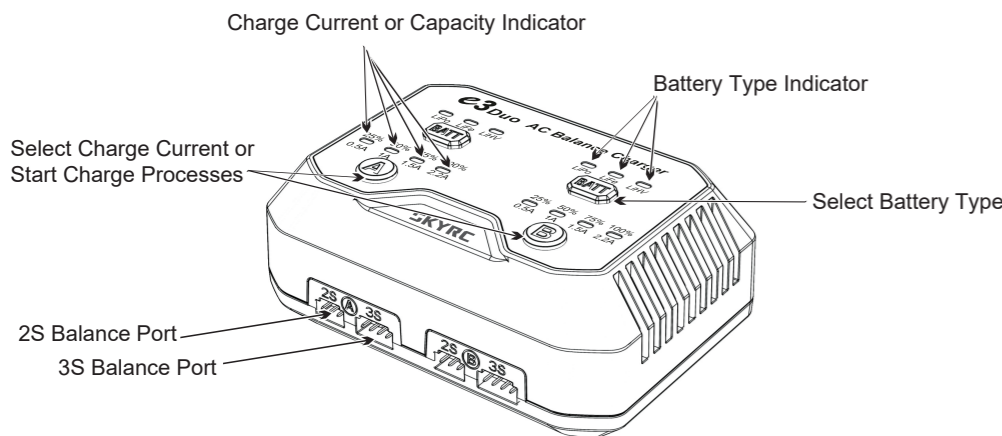
e3Duo Multi Chemistry Charger SK100164

SKYRC

INTRODUCTION

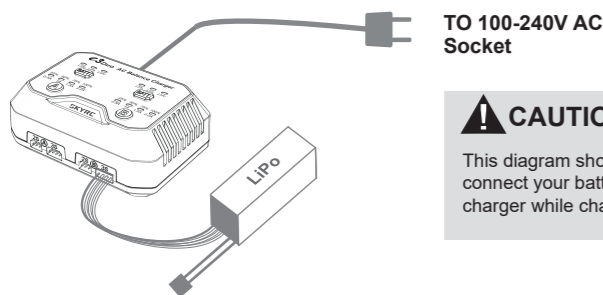
Thank you for your choice of the SKYRC e3 Duo, 100-240V AC balance charger. This unit is simple to use but its operation does require some knowledge on the part of the user. Please read this entire operating manual completely and attentively before using this product, as it covers a wide range of information on operating and safety.

SKYRC e3 Duo Charger is an economic, high quality 100-240V AC balance charger, designed for charging LiPo, LiFe and LiHV batteries from 2-3 cells in balance mode. The circuit power is 20W for each channel and max charge current can reach to 2.2A. There are four kinds of charge current 0.5A/1A/1.5A/2.2A that can be selected. You could select the proper charge current according to battery capacity.



OPERATION

SKYRC e3 Duo comes with the built in power supply. You can connect the AC power cord to the AC socket (100-240V AC) directly.

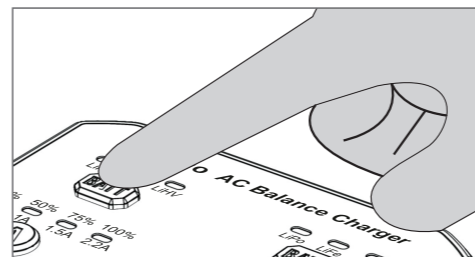


CAUTION:

This diagram shows the correct way to connect your battery to the e3 Duo charger while charging in balance mode.

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 one second, then battery type LED(default LiPo) and the charge current LED(default 1A) will glow constant white.

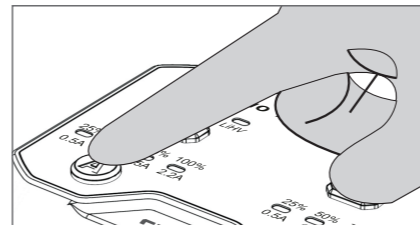


Select Battery Type

- 3) Connect battery balance wire to balance port which is in front side of the charger, select the battery type LiPo/LiFe/LiHV by press "BATT" button.

- 4) Select the proper charging current 0.5A/1A/1.5A/2.2A by pressing the circular button.

The recommended charge rate is 1C (battery capacity = charge current). 1C means: capacity value = charge current.



Select Charging Current

Example: LiPo cell of 2200mAh Capacity; 1C=2200mA (=2.2A) charge current. You can choose 2.2A current to charge the battery.

- 5) The charger starts charging when the A-button was pressed for several seconds. The charge status LED will glow to indicate charging is in progress.

EXPLANATION OF LED STATUS

	Capacity < 25%	25% capacity indicator LED flashing
	25% ≤ Capacity < 50%	50% capacity indicator LED flashing
	50% ≤ Capacity < 75%	75% capacity indicator LED flashing
	75% ≤ Capacity < 100%	100% capacity indicator LED flashing

Remark:

The capacity indicator LED flash times shows the charge current you set.

0.5A	Flashes white ONCE and stop 1 second in cycle.
1.0A	Flashes white TWICE and stop 1 second in cycle.
1.5A	Flashes white THREE TIMES and stop 1 second in cycle.
2.2A	Flashes white FOUR TIMES and stop 1 second in cycle.

When the battery is fully charged, the charge status LED will glow constant WHITE. Unplug the battery from the charger and press the circular button once, the charger will be ready to charge another battery.

- 6) During the charging process, if you want to stop charging, press the circular button once.

ERROR MESSAGE

If the charger encounters a problem, all LEDs will flash white to alert you the errors. In this case, please disconnect the power cord from the wall socket and unplug the battery from the charger.

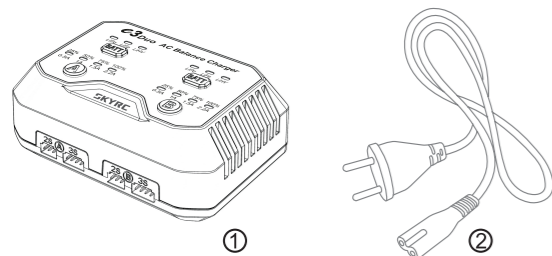
LED Blinking Times	Problem
All LEDs flashes white ONCE and stop 1 second in cycle	Voltage of one cell in the battery pack is too high
All LEDs flashes white TWICE and stop 1 second in cycle	Voltage of one cell in the battery pack is too low
All LEDs flashes white THREE TIMES and stop 1 second in cycle	The charging time is longer than 120min

SPECIFICATION

AC Input	100-240V
Battery Type	LiPo/LiFe/LiHV
Cell Count	2-3 CELLS
Charge Current	0.5A/1A/1.5A/2.2A
Cell Terminate Voltage	LiPo: 4.2V ± 0.02V / LiFe: 3.6V ± 0.02V LiHV: 4.35V ± 0.02V
Circuit Power	20Wx2
Current Drain for Balancing	Max. 200mA
Dimension	108x76x50mm
Weight	500g

THE SET CONTAINS

- ① SkyRC e3 Duo Charger
- ② AC Power Cord



WARNING AND SAFETY NOTES

- **Never leave the charger unattended when it is connected to its power supply**
- **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/LiHV batteries. Do not attempt to recharge non-rechargeable batteries. Charging other types of batteries may cause fire or explosion.**
- **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.**
- 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.
- The allowable AC input voltage is 100-240V AC. Never connect it to any other voltage.
- Protect charger from dust, dirt and damp.
- 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.

CONFORMITY DECLARATION

This appliance can be used by children aged from 14 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

⚠ Never leave the charger unattended when it is connected to its power socket. If any malfunction is found, TERMINATE THE PROCESS AT ONCE.

⚠ Keep the charger well away from dust, damp, rain, heat, direct sunshine and vibration. Never drop it.

⚠ Never charge batteries on wood, cloth, carpet or on any other flammable material.

⚠ During charging, the charger must be placed in a well ventilated area.

⚠ The allowable AC input voltage is 100~240V AC.

♻ 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.

The e3 Duo 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
CE-LVD	EN60335-2-29	Household and similar electrical appliances – Safety – Part 2-29: Particular requirements for battery chargers.	Conform
	EN 60335-1: 2012 +A11: 2014	Household and similar electrical appliances - Safety - Part 1: General requirements	Conform
CE-EMC	EN55014-1: 2006+ A1: 2009+A2: 2011	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission	Conform
	EN55014-2: 1997+ A1: 2001+A2: 2008	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity Product Family Standard	Conform
	EN61000-3-2: 2014	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: 2013	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage supply systems for equipment with rated current ≤ 16 A.	Conform
FCC-VOC	FCC Part 15B	Title 47 Telecommunication PART 15 - RADIO FREQUENCY DEVICES Subpart B - Unintentional Radiators	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 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.

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@skyrc.cn

Technische Änderungen sowie Änderungen in Ausstattung und Design vorbehalten.

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