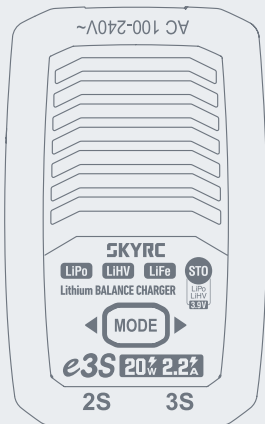


SKYRC

Instruction Manual

v. 17



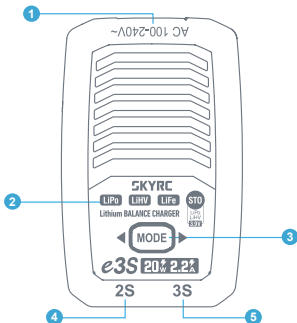
e3S

Lithium (2-3s) Balance Charger

Getting to know e3S

Thank you for purchasing the SkyRC e3S Charger!

The e3S is an easy-to-operate charger specifically designed for 2-3S lithium batteries. Please read the user manual carefully before use.



① AC 100-240~ Input

② Status Indicator

③ Button and Port Overview:

Battery Type Switch Button

Working Mode Switch Button

Start Button

④ 2-CELL Balance Port

⑤ 3-CELL Balance Port

! Caution

DO NOT connect both 2-cell and 3-cell batteries at the same time, as it may damage the charger.

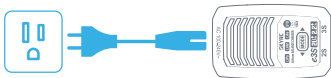
Specifications

Input	AC 100V-240V 50/60Hz
Input Power	25W \pm 10%
Battery Type	LiPo / LiHV / LiFe
Cells	2S, 3S
Charging Power	20W \pm 2W
Charging Current	2S: 2.20A \pm 10% (non-adjustable)
	3S: 1.60A \pm 10% (non-adjustable)
Storage Mode	LiPo / LiHV
Balancing Current	300mA MAX
Discharge Power	2W
Operating Temperature	0°C ~ 40°C
Operating Humidity	5% to 75% RH (non-condensing)
Storage Temperature	-10°C to 70°C
Storage Humidity	5% to 75% RH (non-condensing)
Dimensions	92 × 58 × 36 mm
Weight	Approx. 104g

Operation

1. Connect the Charger

Plug the charger into the wall socket. The red and green indicator lights will flash alternately, indicating that the charger is in standby mode. The default battery type is LiPo.



2. Connect the Battery Balance Port

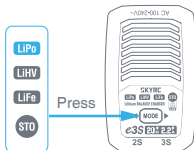
Ensure the battery balance port is connected correctly.

(Note: Do not connect both 2-cell and 3-cell batteries at the same time.)



3. Select Battery Type or Charging Mode

Choose the appropriate battery type or working mode based on your needs.



4. Start Charging or Storage Mode

- You can press and hold the "MODE" button for more than 3 seconds to initiate charging or storage mode.
- If no action is taken after connecting the battery, the charger will automatically start working after 8 seconds.

Operation Instructions

5. Status Indicators

- During operation, the LED light will pulse in a breathing pattern to indicate the charging status.
- When the operation is complete, the LED light will remain solid.

To interrupt the charger's operation, simply disconnect the balance port.

LED Status Explained

Status	Charging Status
Red and Green Alternating Flashing	Standby
Pulsing Green	Charging
Green Solid Light	Charging Complete
Pulsing Yellow	Storage Mode in Progress
Yellow Solid Light	Storage Complete

Abnormal Status Indicator

When the charger detects an abnormal battery voltage, all 4 LEDs will blink simultaneously 4 times and enter a continuous blinking mode, indicating the following voltage issues:

- **LiPo Battery:**

Battery voltage exceeds 4.35V or drops below 2.5V.

- **LiHV Battery:**

Battery voltage exceeds 4.50V or drops below 2.5V.

- **LiFe Battery:**

Battery voltage exceeds 3.80V or drops below 2.5V.

Important Notices

Please read this manual carefully to ensure safe and proper use.

Do not leave the charger unattended while charging. If any abnormalities occur, immediately stop charging.

- The e3S charger is only suitable for lithium-ion battery packs. Do not attempt to charge any battery types not listed in this manual, to prevent the risk of fire.
- Both the battery and the charger will generate heat during charging. Please use them in a well-ventilated and safe location.
- Do not use the charger without supervision.
- Do not charge damaged or defective batteries.
- If there are any functional abnormalities, immediately stop charging.
- Keep the charger away from high temperatures, moisture, rain, and direct sunlight.
- Do not use or store the charger in high-temperature, humid, or direct sunlight areas.
- Keep the charger and batteries out of reach of children.

Conformity Declaration

The e3S satisfies all relevant and mandatory CE directives and FCC Part 15 Subpart B.

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

	Test Standard	Title	Result
CE-EMC	EN IEC 55014-1	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	Conform
	EN IEC 55014-2	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity Product Family Standard	Conform
	EN IEC 61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: – Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	Conform
	EN 61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage supply systems for equipment with rated current ≤16 A.	Conform
CE-LVD	EN 60335-1	Household and similar electrical appliances - Safety - Part 1: General requirements	Conform
	EN 60335-2-29	Household and similar electrical appliances – Safety – Part 2-29: Particular requirements for battery chargers.	Conform
FCC	FCC 47CFR Part 15 subpart B	Title 47 Telecommunication PART 15 - RADIO FREQUENCY DEVICES Subpart B - Unintentional Radiators	Conform

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 info@skyrc.com

SKYRC

The manual is subject to change without notice;
please refer to our website for the latest version!

**Manufactured by
SKYRC TECHNOLOGY CO., LTD.**

Floors 4, 5, & 8, Building 4, Meitai Technology Park, Guangang South Road,
Guanlan, Longhua District, Shenzhen 518110, China

© 2024.12
www.skyrc.com
7504-1962-01

