

WARNING AND SAFETY NOTES

- This appliance can be used by children aged from 8 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 similar qualified persons in order to avoid a hazard.
- This charger is suitable for charging rechargeable LiPo 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 shot-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.

WARRANTY AND SERVICE

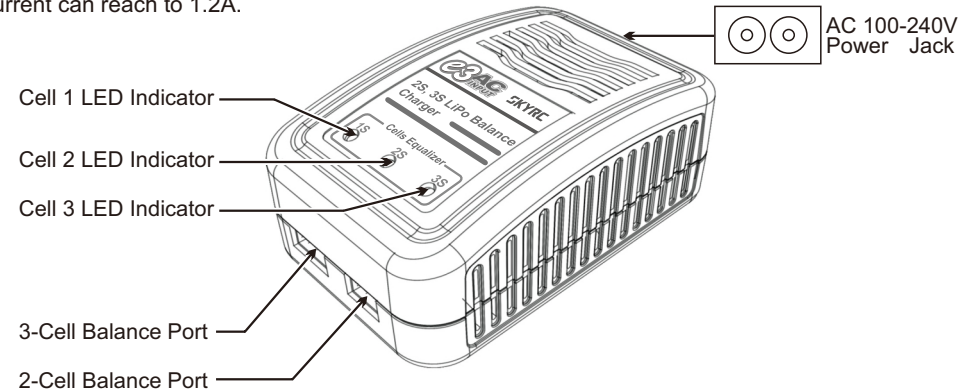
We guarantee this product to be free of manufacturing and assembly defects for a period of one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes. For any repair or replace service, please contact your dealer in the first instance, who is responsible for processing guarantee claims.

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.

INTRODUCTION

Thank you for your choice of the SKYRC e3, 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 Charger is an economic, high quality 100-240V AC balance charger, designed for charging LiPo batteries from 2-3 cells in balance mode. The circuit power is 11W and max charge current can reach to 1.2A.



CHARGE PROCEDURES

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

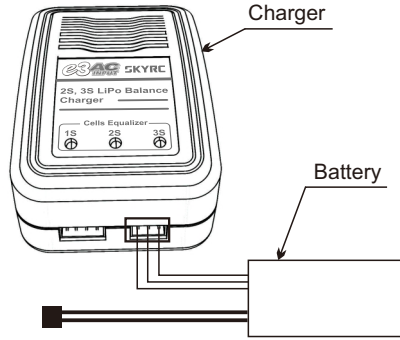
Please refer to following steps to charge the battery,

Note: Please DON'T connect more than one battery to the balance ports simultaneously. ONE battery is allowed to connect to the balance port at a time and this charger can charge ONE battery at a time.

- 1) Insert the AC power cord into the charger.
- 2) Insert the AC cord into a wall socket (100-240V). All LEDs will light green and flash red to indicate the charger is ready to charge.
- 3) Connect battery balance wire to balance port which is in front side of the charger, after 2 seconds, the charger detects the voltage of the battery and starts to charge.
- 4) The charger starts charging. The LEDs 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.
- 5) When a cell is completely charged, its corresponding LED will glow constant green. A 2-cell pack is fully charged when LEDs 1 and 2 are constant green. For 3-cell pack, all LEDs will glow constant green to indicate the pack is fully charged.
- 6) Unplug the battery from the charger and the charge status LED will stay green and flash red which indicates the charger is ready to charge another battery.

Remark:

- 1 If you unplug the battery while charging, the charger will stop charging automatically and enter into standby status.
- 2 If the charger encounters overload or short circuit while charging, the charger will stop charging and three LEDs will flash red.



CONNECTION DIAGRAM

CAUTION:

This diagram shows the correct way to connect your battery to the e3 charger while charging in balance mode. Failure to connect as shown in this diagram will damage this charger.

EXPLANATION OF LED STATUS

LED Indicator	Charger Status
LED stays green and flashes red.	The charger is ready to charge.
LED glows constant red.	The charger is charging.
LED glows constant green.	The charging process finishes.

*** Error Message**

If the charger encounters a problem, all LEDs will flash red 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 Indicator	Cause of Error
All LEDs flashes red once and stop 1 second in cycle.	The battery connects incorrectly.
All LEDs flashes red twice and stop 1 second in cycle.	The charger encounters overload or short circuit.
All LEDs flashes red four times and stop 1 second in cycle.	The voltage of single cell is too high or too low.
All LEDs flashes red six times and stop 1 second in cycle.	There is a 300mv difference of voltage between battery pack.

SPECIFICATION

AC Input	100-240V, 50/60Hz
Battery Type	LiPo(100-5000mAh)
Cell Count	2-3 cells
Charge Current	1.2A Max
Cell Terminate Voltage	4.2V ± 0.02V
Circuit Power	11W ± 10%
Dimension	88x57x35mm
Weight	103g

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.

CONFORMITY DECLARATION

SKYRC e3 satisfies all relevant and mandatory EC directives and FCC Part 15 Subpart B: 2008. The product has been tested to meet the following technical standards:

	Test Standards	Title	Result
CE-LVD	EN60335-1	Household and similar electrical appliances - Safety -	Conform
	EN60335-2-29	Household and similar electrical appliances --. Safety --. Part 2-29: Particular requirements for battery chargers.	Conform
	EN62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	Conform
CE-EMC	EN 61000-3-2:2006 +A1:2009+A2:2009	Electromagnetic compatibility (EMC) -- Part 3-2: Limits - 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: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low - voltage supply systems, for equipment with rated current ≤16A per phase and not subject to conditional connection.	Conform
	EN 55014-1:2006	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -- Part 1: Emission	Conform
	EN 55014-2:1997+A1 2001+A2 2008	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Immunity - Product family standard	Conform
FCC-VOC	FCC Part 15B	Electromagnetic compatibility (EMC), Conduction Emission & Radiation Emission.	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.

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



Manufactured by
SKYRC TECHNOLOGY CO., LTD.
www.skyrc.com 7504-0382-07