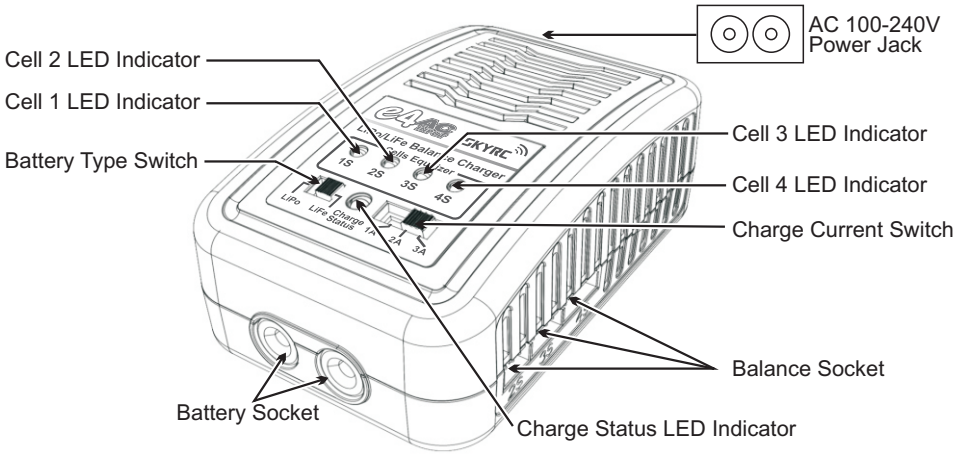
SKYRC e4 INSTRUCTION MANUAL

SK-100055

INTRODUCTION

Thank you for your choice of the SKYRC e4, 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 e4 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 20W 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 e4 comes with the built in power supply. You can connect the AC power cord to the AC socket (100-240V AC) directly.

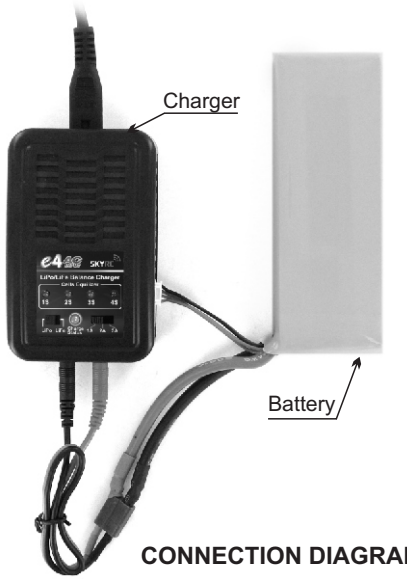
Please refer to following steps to charge the battery,

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 toggle switch.
4) Select the proper charging current 1A/2A/3A by the toggle 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 to the e4 charger while charging in balance mode.
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 the charger encounters a problem, all LEDs will flash red in sequence to alert you the errors. In this case, please disconnect the power cord from the wall socket and unplug the battery from the charger.

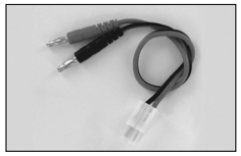
SPECIFICATION

AC Input	100-240V
Battery Type	LiPo/LiFe
Cell Count	2-4 cells
Charge Current	1A/2A/3A ± 10%
Circuit Power	20W
Current Drain for Balancing	200mA
Dimension	69.4x110.7x40.5mm
Weight	176g

THE SET CONTAINS

① SkyRC e4 Charger
② AC Power Cord
③ 18AWG Wire Charging Cable

RECOMMENDED ACCESSORIES


Tamiya charging cable
5201-0030-01

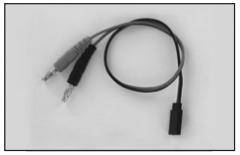

EC3 charging cable
5201-0034-01


Dean charging cable
5201-0012-01


Crocodile clip charging cable
5201-0031-01


TRAXXAS charging cable
5201-0033-01


JST/BEC charging cable
5201-0043-01


Futaba RX charging cable
5201-0044-01

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.

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

- SKYRC e4 is suitable for charging rechargeable LiPo/LiFe batteries. Do not attempt to recharge dry cells. 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.
- Ensure that there is an unrestricted airflow to and from the charger's cooling slots. 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.

CONFORMITY DECLARATION

SKYRC e4 satisfies all relevant and mandatory CE 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	EN60335-2-29	Household and similar electrical appliances –. Safety –. Part 2-29: Particular requirements for battery chargers.	Conform
CE-EMC	EN61000-3-3	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 16 A per phase and not subject to conditional connection.	Conform
	EN61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ⩽16 A per phase)	Conform
	EN61000-6-1	Electromagnetic compatibility (EMC) -- Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments.	Conform
	EN61000-6-3	Electromagnetic compatibility (EMC) -- Part 6-3: Genericstandards - Emission standard for residential, commercial andlight-industrial environments.	Conform
FCC-VOC	FCC Part 15B	Electromagnetic compatibility (EMC), Conduction Emission & Radiation Emission.	Conform

This symbol means that you must dispose of electrical devices 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.

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

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