



RACER 50

2-4S LIPO - LIHV BATTERY AC CHARGER

The RACER 50 is a compact balance charger with built-in AC power supply and with a precision balanced charging.



**50W
POWER**



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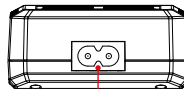
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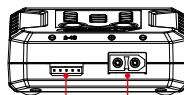
INSTRUCTION MANUAL

FEATURES

- AC Input (V) 100-240V AC
- Charge power 50W
- For 2-4S LIPO-LIHV batteries
- Automatic nr of cells detection
- Auto-start function
- Balance current 500mA
- Sel. charge current up to 4.0A
- Real time charge status indicator
- Multiple safety protections
 - Over-Current protection
 - Over-Voltage protection
 - Short-Circuit protection



AC Input (V) 100-240V AC

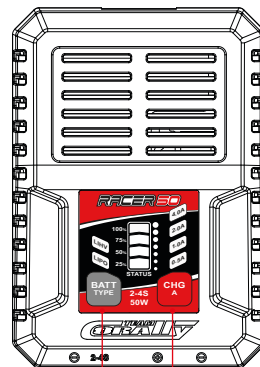


Balancer socket 2-4S XH
Charge socket XT-60

INSTRUCTION MANUAL

POWER SPECS

Input Voltage	AC 100-240V
Output	DC 17.4V - Max 4.0A
Battery Type	Li-Po / Li-HV
N° of Li-xx Cells	2 - 4S
Balance Current	500mA @ 4.20V

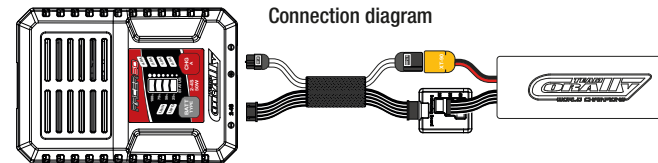


BATT Type
Battery type selector

CHG A
Charge current selector

INSTRUCTIONS

1. Connect the mains cable to the charger. After booting up, the LED lights up.
2. The default setting is for LIPO (4,2V Cell) type batteries. This battery type charging mode is safe for all types of LIPO (4.2V Cell) and LIHV (4.35V Cell) batteries. If you want to charge your LIHV battery in LIHV mode, push during 3-5 seconds the **BATT TYPE** button to select the LIHV battery type. After the charging cycle, the charger returns to LIPO mode again. **NEVER** charge a LIPO (4,2V Cell) type battery with the LIHV (4.35V Cell) battery type mode.
3. Press the **CHG A** key to select the desired charge current (0.5 - 1.0 - 2.0 - 4.0A). Default setting is 4A (Suitable for all LIPO and LIHV batteries with a capacity of more then 4000mAh, if your battery capacity is lower, please decrease the charge rate). In general, never charge your Lithium battery with more then max. 1C or 1x the battery capacity.
4. Connect the battery POWER CONNECTOR and the battery BALANCE CONNECTOR to the charger or to the charge / balance lead.
5. The charging process will start automatically after detecting the battery voltage is normal.
6. The charge status is indicated in % and can be followed in realtime



INSTRUCTION MANUAL

WARNING AND SAFETY NOTES

These warnings and safety notes are particularly important. Please follow the instructions for maximum safety; otherwise the charger and the battery can be damaged or at worst it can cause a fire.

1. Never leave the charger unattended when it is connected to its power supply. If any malfunction is found, TERMINATE THE PROCESS AT ONCE and refer to the operation manual.
2. Keep the charger well away from dust, damp, rain, heat, direct sunshine and vibration. Never drop it.
3. The allowable AC input voltage is 100~240V AC.
4. This charger and the battery should be put on a heat-resistant, non-inflammable and non-conductive surface. Never place them on a car seat, carpet or similar. Keep all the inflammable volatile materials away from operating area.
5. Make sure you know the specifications of the battery to be charged or discharged to ensure it meets the requirements of this charger. If the program is set up incorrectly, the battery and charger may be damaged. It can cause fire or explosion due to overcharging.
6. Never attempt to charge or discharge the following types of batteries.
 - A battery pack which consists of different types of cells (incl. different manufacturers).
 - A battery that is already fully charged or just slightly discharged.
 - Non-rechargeable batteries (Explosion hazard).
 - Batteries that require a different charge technique from NiCd, NiMH, LiPo or Gelcell (Pb, Lead acid).
 - A faulty or damaged battery.
 - A battery fitted with an integral charge circuit or a protection circuit.
 - Batteries installed in a device or which are electrically linked to other components.
 - Batteries that are not expressly stated by the manufacturer to be suitable for the currents the charger delivers during the charge process.
7. Please bear in mind the following points before commencing charging:
 - Did you select the appropriate program suitable for the type of battery you are charging?
 - Did you set up adequate current for charging or discharging?

- Have you checked the battery voltage? Lithium battery packs can be wired in parallel and in series, i.e. a 2 cell pack can be 3.7V (in parallel) or 7.4V (in series).
 - Have you checked that all connections are firm and secure?
 - Make sure there are no intermittent contacts at any point in the circuit.
8. Charging

During charge process, a specific quantity of electrical energy is fed into the battery. The charge quantity is calculated by multiplying charge current by charge time. The maximum permissible charge current varies depending on the battery type or its performance, and can be found in the information by the battery manufacturer. Only batteries that are expressly stated to be capable of quickcharge are allowed to be charged at rates higher than the standard charge current.

Connect the battery to the terminal of the charger: red is positive and black is negative. Due to the difference between resistance of cable and connector, the charger can not detect resistance of the battery pack, the essential requirement for the charger to work properly is that the charge lead should be of adequate conductor cross-section, and high quality connectors which are normally gold plated should be fitted to both ends.

Always refer to the manual by battery manufacturer about charging methods, recommended charging current and charging time. Especially, the lithium battery should be charged according the charging instruction provided by the manufacturer strictly.

Please get highlighted that lithium battery packs can be wired in parallel and in series. In the parallel connection, the batteries capacity is calculated by multiplying single battery capacity by the number of cells with total voltage stay the same. The voltages imbalance may cause fire or explosion. Lithium battery is recommended to charge in series.

WARNING & SAFETY NOTES

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DECLARATION OF CONFORMITY CORALLY RACER 50

Hereby, Team Corally, a division of JSP Group Intl BV declares that the device is in compliance with the following: EU Low Voltage Directive 2014/35/EU; EU EMC Directive 2014/30/ EU; RoHS 2 Directive 2011/65/EU; RoHS 3 Directive

LVD standards

EC 62368-1:2018
EC 62368-1:2020+A11:2020

EMC standards

EC 55014-1:2021
EC 55014-2:2021
EC 61000-3-2:2019/A1:2021
EC 61000-3-3:2013/A2:2021
EN 61000-4-3:2020
EN 61000-4-4:2012

Olen - Belgium - 10 January 2024


Stefan Engelen
Ceo



This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

The warranty conditions and disclaimer can be downloaded from
<https://corally.com/en/useful-links/downloads-manuals>



WEEE: At the end of this device's useful life, please remove all the batteries and dispose of them separately. Take electrical appliances to the local collection points for waste electrical and electronic equipment. Other components can be disposed of in domestic refuse. Thank you for your co-operation!

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DECLARATION OF CONFORMITY