### 1. Specifications

<table>
<thead>
<tr>
<th>AC Input Voltage</th>
<th>DC Input Voltage</th>
<th>Charge Power</th>
<th>Discharge Power</th>
<th>Charge Rate</th>
<th>Discharge Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-240V</td>
<td>5V</td>
<td>80W</td>
<td>10W</td>
<td>8A</td>
<td>2A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Balance Current</th>
<th>Balance Tolerance</th>
<th># of LIX Cells</th>
<th># of NiCd/NiMH Cells</th>
<th>Pb Battery Voltage</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>400mAh/cell</td>
<td>±0.01V</td>
<td>15-60</td>
<td>1-15 cells</td>
<td>2-24V</td>
<td>5.7&quot; L x 5.7&quot; W x 2.2&quot; H</td>
<td>19.4 oz</td>
</tr>
</tbody>
</table>

### 2. Button Functions

- **Stop/Exit**: Mode selection/stop/back button. Press this key to get to the main menu and to stop charging or discharging process.
- **Dec/Inc**: Decrease and increase buttons. You can reduce and increase values and browse other information by using these buttons during charge or discharge process.
- **Enter/Start**: Select and enter button. Press and hold for 2 seconds to finalize your selection.

### 3. Warnings and Safety Notes

**WARNING:** Read the ENTIRE instruction manual to become familiar with the features of the product before beginning use. Failure to operate the product correctly, to exercise caution while using this product, and to comply with the following warnings can result in damage to the product, personal property, or cause serious injury.

**AGE RECOMMENDATION:** Not for children under 14 years of age. This is not a toy.

### 4. Exterior Diagram

- LCD screen
- Balance port
- Output port
- Buttons

### 5. Programming Guide

#### 4.2 LiPo/LiH batteries

From the program select screen, use the STOP or - key to select Program Select Lipo Battery and then press the START key.

#### 4.3 NiCd/NiMH batteries

From the program select screen, use the STOP or - key to select NiCd or NiMH battery and then press the START key.

#### 5. Charging

- **WARNING**: For increased safety, we recommend that you always connect the battery after connecting to the charger when charging LiPo or LiFe. Otherwise, you will risk damaging the battery.

### 6. Programming

- **Mode**: Change charge mode
- **Charge time**: Change charge time
- **Charge current**: Change charge current

#### PROGRAM SELECT

**NiCd**

**NiMH**

**LiPo**

**LiFe**

For more information, please refer to page 10 of these instructions.
6.4 Digital Power

**PROGRAM SELECT**

**Digital Power**

Mode Set 12.00

Power Dc 12.00

Current 2.000

In this mode, charger can provide a output power of DC 3.3W-36.4V for the other electronic equipment.

Precharge Time
When charging over-discharged batteries, the charger makes a slow charge before starting the fastcharge. This setting adjusts the duration of the slow charge. Slow charging over-discharged batteries is recommended to avoid further damage to the batteries.

**Precharge Time** OFF 1min

N/MMl/Ce delta peak sensitivity
This setting adjusts the automatic delta peak charge cut-off sensitivity. Use a higher value if the charger does not stop generation and a lower value if your battery is hot at the end of the charge. Default value is 10V/mV for N/MMl/Ce.

**N/MMl/Ce delta peak sensitivity** E/Pk Default

N/Ci sensitivity E/Pk Default

Temperature monitoring
This setting allows the charger to use an optional temperature probe for battery temperature monitoring. You can adjust the battery charge cut-off temperature.

**Temp Cut-Off** ON 80(176°F)

Cycle Delay
To prevent battery overcharging during cycling, the charger can make a pause between the charged or charged cycles.

**Cycle Delay** 1H 10M 5min

Safety timer
This function adds an extra layer of security during the charge. The charge will be interrupted once the set time is reached, whether the battery is fully charged or not.

**Safety Timer** 1H 10M 5min

Capacity Cutoff
This is another safety feature that checks the amount of energy (in mAh) that is supplied to the battery during charge. The charge will be interrupted once the power value is reached, whether the battery is fully charged or not.

**Capacity Cut-Off** ON 5000mAh

7. Extra information display

While the charger is charging or discharging a battery, you can use the - and + keys to display extra information:

- **N/MMl/Ce delta peak sensitivity**
  - Indicates delta peak sensitivity for N/MMl/Ce.
  - Default: E/Pk

- **N/Ci sensitivity**
  - Indicates sensitivity for N/Ci.
  - Default: E/Pk

- **End Voltage**
  - Indicates the Voltage on the battery and voltage.

- **Capacity Cut-Off**
  - Indicates the capacity setting.

- **Safety Timer**
  - Indicates the time the battery is charged.

- **Ext. Temp**
  - Indicates the temperature measured by the probe.

- **IN Power Voltage**
  - Indicates actual input voltage.

Modifying the charger’s default setting
The charger’s default settings can be modified. Normally, these settings are not considered incorrect use but rather individual settings.

8. Error Messages

The charger can display error messages when certain types of problems are detected. In any case when an error occurs, check the connections, power supply, battery and settings.

**This indicates that there is a polarity reverse. Check the battery and connections.**

**REVERSE POLARITY**

**This indicates that the connection between the charger and battery was interrupted while the charging was charging or discharging. Check the battery and connections.**

**CONNECTION BREAK**

**This indicates that there is an electrical short-circuit on the charger output. Check the battery and connections.**

**SHORT ERR**

**This indicates that there is a problem with the power supply. Check the battery and connections.**

**INPUT VOL ERR**

**This indicates a charger failure. Stop using the charger and contact Common Sense RC or an authorized retailer.**

**BREAK DOWN**

**This indicates that the battery voltage is too low. Check the battery and connections.**

**BATTERY CHECK LOW VOLTAGE**

**This indicates that the battery voltage is too high. Check the battery and connections.**

**BATTERY CHECK HIGH VOLTAGE**

**This indicates that one or more cells of the battery have a too low voltage. Check battery and connections.**

**BATTERY VOLTAGE CELL LOW**

9. Warranty

Below is considered incorrect use:
- Failure to follow instructions.
- Improper use of the product (abuse, use out of spec., etc.).
- Failure to keep settings for proper function (misproportion connectors, wrong starting, installation, error, etc.).
- Overload, overheating (overcharging, melting, etc.).
- Running in inadequate condition (damage or failure shown, humidity, etc.).
- Improper maintenance (presence of dirt, etc.).
- Disassembly, modification by the user (sold, original connectors, wires, components, etc.).
- Mechanical damage due to external causes.

**COMPLIANCE INFORMATION FOR THE EUROPEAN UNION**

Declaration of Conformity

The product must not be disposed of with other waste. Instead, it is the user’s responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Instructions for disposal of WEEE by users in the European Union

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