PLEASE SAVE THESE INSTRUCTIONS.
THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS.

TO REDUCE RISK OF BATTERY EXPLOSION, FOLLOW THESE INSTRUCTIONS AND THOSE MARKED ON THE BATTERY.

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SMart One
Battery Charger
User’s Guide
Components
The SMart One package includes:
1  SMart One Charger
1  Universal Power Supply
1  AC Power Cord

Description
The SMart One is a Level 3 Charger\(^1\) which supports the System Management Bus (SMBus).

Operation and User Interface
The SMart One is an automated charger. The presence of a battery is automatically detected and charging is initiated as needed.

Three LED’s are used to display activity status. Only one LED will be ON at any time. All LED’s flash once upon powering the device.

To prepare the SMart One for use, insert the DC voltage plug from the power supply into the jack on the back of the charger. Attach the AC power cord to the power supply, then insert the AC plug to a wall outlet.

The power supply is compatible with all common AC supply voltages (100 to 240VAC). AC voltage setting is automatic.

Supported Battery Packs
15, 17, 30, 35, 36, 1020, 1030, 201, 202, 210, 2020 or equivalent

NOTE: Battery manufacturers use various designations in conjunction with the numbers listed above to identify their brand. The SMart One Charger supports these batteries.

Power Supply
Input: 100 to 240VAC / 50-60Hz
Output: 22 to 27 VDC / 45W

Operating Temperature
0°C to 45°C (Recommended: 5°C to 45°C)

Limited Warranty
Cadex Electronics Inc. warrants the SMart One Charger and its external power supply against defective materials and workmanship for one [1] year from the purchase date.

Caution!
- Do not block ventilation slots on back panel of charger.
- Use only with supplied universal power supply.
- Charge only supported chemistries and battery packs listed above.
- Keep away from moisture. Clean only with dry or slightly damp lint-free cloth.
- Do not remove cover. The charger is not user serviceable.
- Air conditioning is recommended in the event of high ambient temperature.

Warning
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.

Disclaimer
While every effort is made to ensure that the information contained in this guide is accurate and up-to-date, Cadex Electronics Inc. does not warrant or guarantee its accuracy. Further, Cadex makes no warranties, either expressed or implied, as to the merchantability or fitness for a particular purpose of the SMart One Charger equipment. In no event will Cadex or its officers or employees be responsible for any consequential, incidental, or indirect damages (including damages for loss of business profits, business interruption, and the like) arising out of the use or inability to use the SMart One Charger equipment and/or its documentation.

LED Status Indication

<table>
<thead>
<tr>
<th>LED</th>
<th>Status</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>off</td>
<td>No battery present</td>
</tr>
<tr>
<td>Yellow (RUN)</td>
<td>flashing</td>
<td>Initializing battery (max 8 sec, smart battery only)</td>
</tr>
<tr>
<td></td>
<td>on</td>
<td>Battery detected/charging</td>
</tr>
<tr>
<td>Green (READY)</td>
<td>flashing</td>
<td>Topping charge; 80% charged</td>
</tr>
<tr>
<td></td>
<td>on</td>
<td>Battery charge completed</td>
</tr>
<tr>
<td>Red (FAIL)</td>
<td>flashing</td>
<td>Charger fault or over-heat — disconnect from power and allow to cool</td>
</tr>
<tr>
<td></td>
<td>on</td>
<td>Battery fault — replace battery if fault reoccurs</td>
</tr>
</tbody>
</table>

Supported Chemistries

Smart Batteries:
- Lithium Ion, 14.4V maximum nominal
- Nickel Cadmium / Nickel Metal Hydride, 12V maximum nominal

Dumb Batteries:
- Nickel Cadmium / Nickel Metal Hydride, 7.2V to 12V nominal

\(^1\)Level 3 of Smart Battery Charger Specification, Rev 1.0 dated June 27, 1996 as defined by Duracell Inc. and Intel Corporation.