
Ultra-compact, rugged, and water proof, the fully-sealed charger can be mounted directly onto a variety of applications. Features spark proof technology and reverse polarity protection. Charges 2X faster than ordinary chargers. Stay connected 24/7 with zero overcharge.

Firewall.
Multi-level safety barrier prevents unsafe and abnormal conditions.

Optimization.
Stabilizes internal battery chemistry for increased performance and longevity.

Maintenance Plus.
Keeps the battery fully charged without over-charging, indefinitely.

Energy Save.
Minimizes energy consumption when full power is not needed.

Interactive.
Alters the charging process based on organic battery feedback.

Safe.
Protects against reverse polarity, sparks, over-charging, overcurrent, open-circuits and overheating.

Recovery.
Applies a high-voltage pulse charge when low-voltage, sulfation, or lost capacity is detected.

Rugged.
Dirt, water, UV, impact and crush resistant.

Ignition Protected.
Non-ignited and temperature controlled for safe and worry-free operation.

Charge 12V Batteries Up To 230Ah/bank. Maintain All Battery Sizes.
Understanding LED Lights

<table>
<thead>
<tr>
<th>LED</th>
<th>Explanation</th>
<th>Orange Solid Reverse Polarity</th>
<th>All Flashing Error Condition</th>
<th>Red/Green Alternating Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Solid Charging</td>
<td>When the battery is charging, the CHARGE LED will be illuminated RED. The CHARGE LED will remain a solid RED color (not blinking) until the battery is fully charged.</td>
<td>If a Reverse Polarity condition exists, the ORANGE ERROR LED will illuminate. This ERROR condition will be displayed whether the charger is plugged in or disconnected from an AC power source. Reverse the battery connections to fix this ERROR.</td>
<td>If an ERROR condition exists, the Charge LED(s) will flash, and/or the ERROR LED with illuminate and/or flash. There are several reasons an ERROR condition could exist. For help troubleshooting ERROR conditions, see the section entitled TROUBLESHOOTING.</td>
<td>When no battery is connected, the LED lights will alternate between RED and GREEN.</td>
</tr>
<tr>
<td>Green Solid Fully Charged</td>
<td>When the battery is fully charged, the CHARGE LED will be illuminated GREEN. The CHARGE LED will remain a solid GREEN color (not blinking) until either the battery charger is disconnected or the battery becomes discharged.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Technical Specifications

<table>
<thead>
<tr>
<th>Input Voltage AC:</th>
<th>110-120 VAC, 50-60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Voltage AC:</td>
<td>70-130 VAC, 50-60Hz</td>
</tr>
<tr>
<td>Nominal Voltage:</td>
<td>12VDC x 3</td>
</tr>
<tr>
<td>Efficiency:</td>
<td>90% Approx.</td>
</tr>
<tr>
<td>Charging Voltage:</td>
<td>14.4V</td>
</tr>
<tr>
<td>Back Current Drain:</td>
<td>&lt;5mA</td>
</tr>
<tr>
<td>Ripple:</td>
<td>&lt;2%</td>
</tr>
<tr>
<td>Charger Type:</td>
<td>8 Step, Fully Auto., Switch-Mode</td>
</tr>
</tbody>
</table>

Type of Batteries: 12V Lead-Acid
Battery Chemistry: Wet, Gel, MF, EFB, AGM
Battery Capacity: Up To 230Ah, Maintains All Battery Sizes
Housing Protection: IP68
Cooling: Natural Convection
Dimensions (LxWxH): 11.5 x 8.5 x 3.25 Inches
Weight: 14.5 Pounds

Charging Steps

Charging Times

<table>
<thead>
<tr>
<th>Battery Size (Ah)</th>
<th>Approx. Time (Hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>1.3</td>
</tr>
<tr>
<td>30</td>
<td>2.5</td>
</tr>
<tr>
<td>40</td>
<td>3.0</td>
</tr>
<tr>
<td>50</td>
<td>3.5</td>
</tr>
<tr>
<td>60</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Battery Size (Ah) Approx. Time (Hrs)
1.3  2.5  3.0  3.5  4.0
0.2in (5.6mm) 0.1in (2mm) 11.4in (290mm) 9.5in (240mm) 8.4in (212mm)
3.1in (79mm)
AC Cable: 72in  DC Cable: 78in

What’s In The Box

- GEN3 Smart Charger
- Mounting Screws
- User Guide and Information Guide & Warranty

Retail Packaging:
Dimensions: 13.66”x10.94”x5.87”
Weight: 15.67lbs
UPC: 0-46221-09028-4
Inner Carton:
Dimensions: 13.98”x11.22”x6.30”
Weight: 16.40lbs

Master Carton:
Dimensions: 14.72”x12.09”x13.58”
Weight: 34.17lbs
Quantity: 2
UCC: 10046221090281
Units Per Pallet: 72 Units