



Deltran Waterproof 800

12 Volt Single Output Charger

Mounting
Holes



Fused
Output
Accessories
Rings & Clips

The best way to eliminate sulfation is to prevent it!

The Battery Tender® Plus will fully charge a battery and maintain it at the proper storage voltage without the damaging effects caused by trickle chargers (especially sulfation).

- ◆ "SUPER SMART™" TECHNOLOGY
- ◆ 3-STEP CHARGING (Initialization, Bulk, Float)
- ◆ SPARK PROOF
- ◆ SHORT CIRCUIT PROTECTED
- ◆ REVERSE POLARITY PROTECTED
- ◆ WATERPROOF, IP 67 Rating
- ◆ CONVENIENT MOUNTING HOLES (Hardware Included)
- ◆ 3 YEAR WARRANTY !! (Material & Workmanship Only)

ORDERING INFORMATION

Deltran PART NO.	DESCRIPTION
022-0150-DL-WH	12 Volt 0.800 Amp Output
Ask customer service about International configurations.	
081-0148-25	Optional 25 ft. 2-pin Output Extension Leads
081-0148-12	Optional 12.5 ft. 2-pin Output Extension Leads

TECHNICAL SPECIFICATIONS SUMMARY

Input Voltage & Frequency	100 to 240 VAC, 50/60 Hz
DC OUTPUT (Nominal voltage & current values)	
Output Current	0.800 Amps
Output Voltage	12 Volts
Charger Output Voltage Amplitudes throughout the entire charge algorithm, including absorption and float maintenance, are consistent with the optimum charging recommendations of the major lead-acid battery manufacturers.	
Maximum Operating Temperature	50 °C Typical
Charger Case Dimensions	4.2 in(107 mm)L x 2.75 in(70 mm)W x 1.4 in(36 mm)H
Shipping Weight with Cable Accessories	3.0 lbs (1.4 kg)

Note: The Battery Tender® Waterproof 800 is designed to accommodate the demanding charging requirements of high quality lead-acid batteries and should safely charge all lead acid battery types. Always check with the battery manufacturer to get the most complete charging recommendations that are consistent with your application.

Declaration of Conformity: These battery charger products carry the CE mark. They comply with standards comprising the following groups: EC Low Voltage Directive and EC Council Directive on Electromagnetic Compatibility.

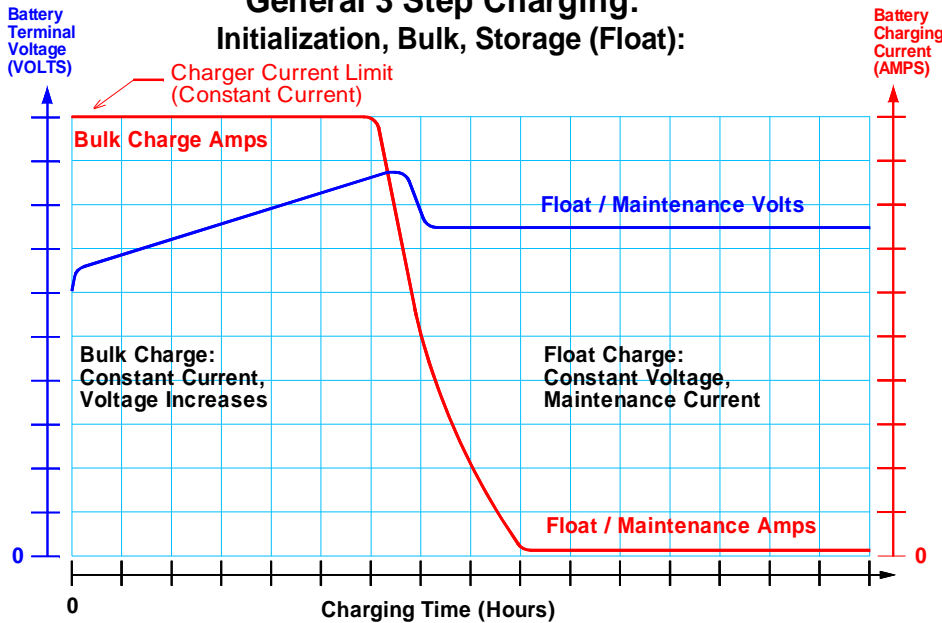
Design Conformance & Revision: All Deltran charger products are 100% inspected and electrically tested prior to shipment. **All Deltran battery charger designs are proprietary and subject to change without notice.** Deltran makes no specific claims nor does it either make or imply any specific guarantee or warranty with respect to either the physical configuration or performance of any of the battery charger products listed herein, including suitability for purpose or merchantability.

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General 3 Step Charging: Initialization, Bulk, Storage (Float):



Step 1) Initialization: LED is Amber: Monitor Circuit verifies appropriate battery voltage levels and good electrical continuity between the battery and the charger DC output. If the AC power is connected and the LED remains OFF, check the DC connections to the battery.

Step 2) Bulk Charge: LED is Amber: Constant Current at Full Power.

Step 3) Float / Maintenance, Storage Charge: LED is Green. Constant Voltage at Float / Maintenance level. Keeps battery fully charged and maintains high specific gravity. Float charge continues indefinitely, or until you unplug the charger from AC power, or a momentary AC power outage causes the charge program to reset.

Note: Three things determine how long it takes to recharge a battery. First is the size of the battery measured in Amp-Hours (Ah) or Reserve Capacity Minutes. Second is how often and how deeply you discharge the battery. Third is the charger DC continuous current output rating (not just the maximum current). A 1.0 amp constant current charger will take at least 100 hours to recharge a dead 100 Ah battery.

INDICATOR LIGHT OPERATION

There is a single LED that appears to have 2 colors.

➤ **THE LED IS OFF** - This is an abnormal condition. First check that the AC power is plugged in. Then check that the charger DC output rings or clips are properly connected to the battery. Then check the fuses in the DC output cables. Finally, check the AC receptacle by plugging another small appliance, like a lamp.

➤ **AMBER** - When the LED is Amber, the battery charger is in the process of fully charging the battery. In order to properly charge large capacity batteries, the charger may remain in this mode for several hours or even days.

➤ **GREEN** - When the LED is Green, the battery battery is completely charged and the charger is in the float / maintenance, storage mode. The charger will maintain the battery at full charge.

➤ **LED ALTERNATES AMBER & GREEN, or APPEARS TO BE ORANGE or BROWN** - This is abnormal and most likely indicates that the battery is sulfated. The Orange or Brown color results from rapid switching between Amber and Green.

APPLICATION INFORMATION

- ◆ Always operate the charger in a well ventilated area
- ◆ If the indicator light does not come on after you plug in the AC cord, follow the steps in the LED Operation section.
- ◆ If the indicator light turns green too soon, check the battery and the output connections from the charger. **Note:** this is a normal indication if the battery was nearly fully charged and only needed to be topped off.
- ◆ It may take a long time for the LED to turn green when charging a large battery.