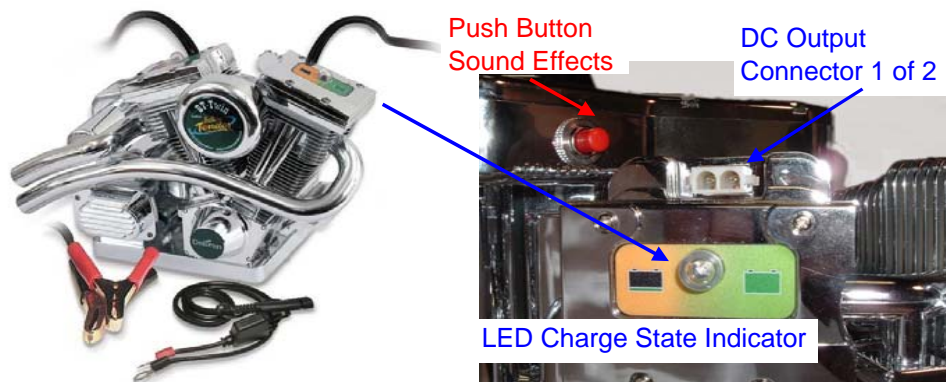




# Deltran BATTERY TENDER® TWIN 12 Volt

## DUAL, Independent Output Battery Chargers



### The best way to eliminate sulfation is to prevent it!

The Battery Tender® Twin 800 will fully charge a battery and maintain it at the proper storage voltage without the damaging effects caused by most trickle chargers (especially sulfation). This trickle charger has a brain!

- ◆ SUPERSMART™ Charging Technology
- ◆ 3-STEP CHARGING (Initialization, Bulk, Float)
- ◆ SPARK PROOF
- ◆ WEIGHS LESS THAN 2 POUNDS
- ◆ SHORT CIRCUIT & REVERSE POLARITY PROTECTED
- ◆ 3 YEAR WARRANTY !! (Material & Workmanship Only)

ORDERING INFORMATION	
Deltran PART NO.	DESCRIPTION
BT-TWIN800-DL-WH	12 Volt Dual 0.800 Amp Output / Americas
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 each output
Output Voltage	12 Volts
Charger Output Voltage Amplitudes throughout the entire charge algorithm are consistent with the optimum charging recommendations of the major lead-acid battery manufacturers.	
Maximum Operating Temperature	50 °C Typical
Charger Case Dimensions	8.8 in (224 mm) L x 6.0 in (152 mm) W x 6.5 in (165 mm) H
Shipping Weight with Cable Accessories	5.0 lbs (2.3 kg)
Unit Weight without Cables	1.75 lbs (0.8 kg)

Note: The economical Battery Tender® Twin 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.

**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.

# Deltran CORPORATION

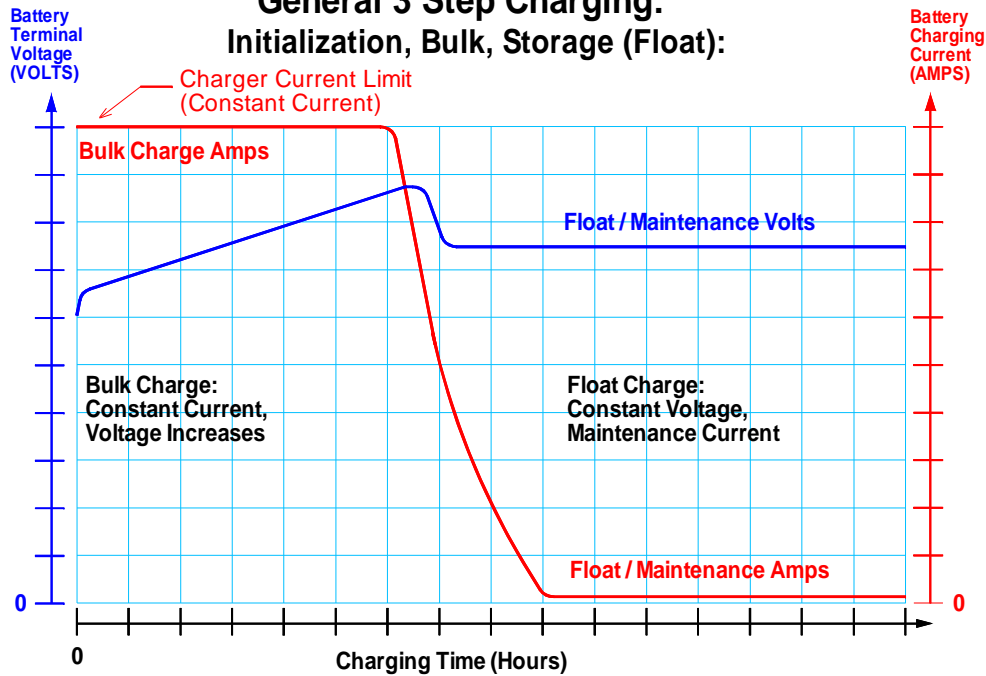
801 International Speedway Blvd.

DeLand, Florida 32724

Phone: 386-736-7900 FAX 386-736-0379

www.batterytender.com

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



## INDICATOR LIGHT OPERATION

- **AMBER** - When the amber indicator light is on, 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 green indicator light is on, the battery charger is in the storage mode of charge. In this mode the charger will maintain the battery at full charge.
- **AMBER & GREEN Alternating** - When the indicator light alternates between amber & green, the connection between the charger and the battery has a high resistance. This can be caused by corrosion or even battery sulfation. Check the battery terminals and the charger cables. Clean them if necessary.

- Step 1) Initialization:** The amber indicator light is on while the safety monitor circuit verifies appropriate battery voltage levels and good electrical continuity between the battery and the charger DC output.
- Step 2) Bulk Charge:** Amber indicator light on Constant Current at Full Power. Bulk Charge ends at approximately 100% of full battery recharge.
- Step 3) Float Charge:** Green indicator light on. Constant Voltage at Float / Maintenance level. Keeps battery fully charged and maintains high specific gravity. Full charge reset monitor protects battery against excessive appliance current draw while charging. Float charge continues indefinitely.

## APPLICATION INFORMATION

- ◆ Always operate the charger in a well ventilated area
- ◆ If the indicator light does not come on after you plug the charger into the AC receptacle, make sure that you have a good connection between the charger and the battery.
- ◆ If the indicator light turns green too soon, check the battery and the output connections from the charger.
- ◆ It may take a long time for the indicator light to turn green when charging a large battery.

**Note:** Always exercise caution when operating any electrical appliance. Read the instruction manual before using the charger. If you are charging a battery that is installed in another piece of equipment or a vehicle, read the instruction manual for that equipment also. Pay particular attention to the manufacturer's recommendations on using external battery charging equipment. If you have any questions about how to connect or operate the charger call Deltran at 1-386-736-7900.