



Deltran BATTERY TENDER®

5 & 10 Bank Shop Chargers

12 Volt Multi-Channel Output Battery Chargers

DC Output Current: 2.0 Amps per channel



Ships with extension leads and Alligator Clips only. NO Rings.

The best way to eliminate sulfation is to prevent it!

The Battery Tender® 5 & 10 Bank shop chargers will fully charge a battery and maintain it at the proper storage voltage without the damaging effects caused by trickle chargers (especially sulfation).

- ◆ **BTP MICROPROCESSOR TECHNOLOGY**
- ◆ **4-STEP CHARGING (Initialization, Bulk, Absorption, Float)**
- ◆ **SPARK PROOF**
- ◆ **SHORT CIRCUIT PROTECTED**
- ◆ **REVERSE POLARITY PROTECTED**
- ◆ **3 YEAR LIMITED WARRANTY !! (Material & Workmanship Only)**

ORDERING INFORMATION

Deltran PART NO.	DESCRIPTION
021-0133	5-Bank, 12 V 2.0 A Output per channel
021-0134	10-Bank, 12 V 2.0 A Output per channel
Optional Cable Extension Accessories	
081-0148-12	12.5 Ft Cable Extension (with quick disconnect)
081-0148-25	25 Ft Cable Extension (with quick disconnect)

TECHNICAL SPECIFICATIONS SUMMARY

Input Voltage & Frequency	120 VAC, 60 Hz, 700 Watts	
DC OUTPUT (Nominal voltage & current values)		
Output Current	2.0 Amps per channel	
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:		
5-Bank	16.5 in(419 mm)L x 6.75 in(171.5 mm)W x 6.75 in(171.5 mm)H	
10-Bank	9.5 in(419 mm)L x 6.75 in(171.5 mm)W x 6.75 in(171.5 mm)H	

Shipping Weight with Cable Accessories:	5-Bank	16.0 lbs (7.3 kg)
	10-Bank	30.0 lbs (13.6 kg)

Note: The 5 & 10 Bank shop chargers are 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.

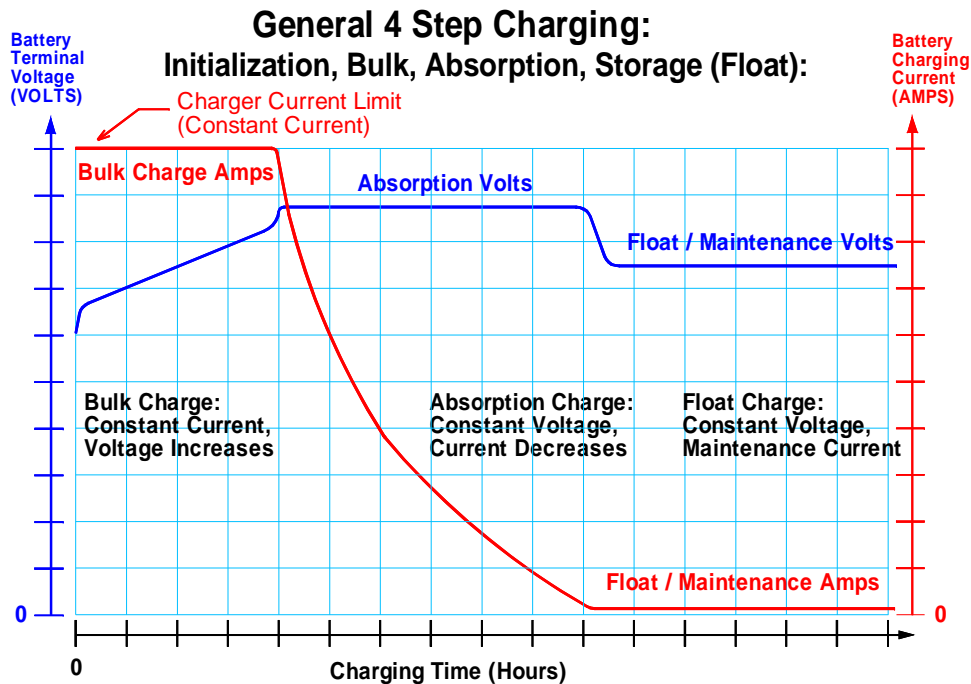
Design Conformance & Revision: All Deltran charger products are 100% inspected and electrically tested prior to shipment. **All Deltran battery charger designs are proprietary and subject to change without notice.** Deltran makes no specific claims nor does it either make or imply any specific guarantee 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.

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Step 1) Initialization: Red Light On: Monitor Circuit verifies appropriate battery voltage levels and good electrical continuity between the battery and the charger DC output.

Step 2) Bulk Charge: Red Light On, Green Light Off: Constant Current at Full Power. Bulk Charge ends at approximately 75% to 80% of full battery recharge.

Step 3) Absorption Charge: Red Light On, Green Light Flashing: Constant Voltage at Absorption Level. This conditions the battery for optimum performance. Absorption charge ends when the battery charging current drops below the optimum recharge threshold or the absorption timer expires.

Step 4) Float Charge: Red Light Off, Green 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.

INDICATOR LIGHT OPERATION

- **AMBER** - The amber indicator light is for AC power only. When it is on AC power is applied to the unit.
- **RED FLASHING** - The red light does not flash on this unit.
- **RED** - When the red 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 FLASHING** - When the green light is flashing, and the red light is on, the battery is greater than 80% charged and may be removed from the charger and used if necessary. Leave the battery on charge until the green light is solid whenever possible. Once the green light begins to flash, it will remain flashing until the battery charger output current drops below the optimum recharge threshold, or until the absorption timer expires.
- **GREEN** - When the green light is lit, the battery charger is in the storage mode of charge. In this mode the charger will maintain the battery at full charge.

APPLICATION INFORMATION

- ◆ Always operate the charger in a well ventilated area
- ◆ If the amber indicator light does not come on after you plug in the AC cord, then check the AC power receptacle.
- ◆ If the green indicator light comes on too soon, check the battery and the output connections from the charger.
- ◆ It may take a long time for the green light to come on when charging a large battery.