



**PORTABLE
POWER TENDER PLUS
INTERNATIONAL**

Single Output 12 Volt Battery Charger

Bi-Level DC Output Current: 5.0 Amp or 2.5 Amp



Note: This unit operates very much like the VRW Power Tender. The main differences are the two levels of maximum DC output current, and the wider range for AC input voltage. The software is very similar to the traditional Battery Tender Plus, 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. This unit is not waterproof.

The best way to eliminate sulfation is to prevent it!
The Portable Power Tender Plus International will fully charge a battery and maintain it at 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**
- ◆ **PORTABLE (With Accessory Storage Compartment)**
- ◆ **UNIQUE 3-Wire Cable Accessories (Patent Pending)**
- ◆ **2 YEAR WARRANTY (Material & Workmanship Only)**

ORDERING INFORMATION	
Deltran PART NO.	COUNTRY / REGION
022-0142-DL-AU	Australia / New Zealand
022-0142-DL-EU	Continental Europe
022-0142-DL-JP	Japan
022-0142-DL-UK	England / Ireland
022-0142-DL-WH	Western Hemisphere / North & South America
081-0148-25	Optional 25 ft. 2-pin Output Extension Leads
MSRP \$136.50 U.S.D.	

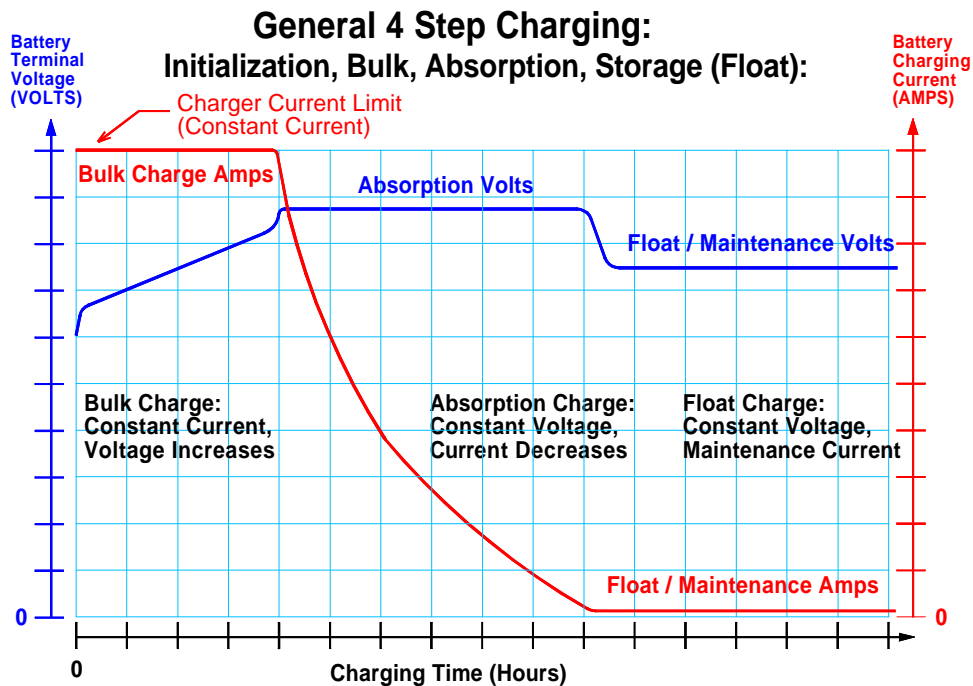
TECHNICAL SPECIFICATIONS SUMMARY	
Input Voltage & Frequency	100 to 240 VAC, 50/60 Hz
DC OUTPUT (Nominal voltage & current values)	
Output Current Set by Accessory Cable Configuration	5.0 Amps with 3-pin accessories (ship with unit). 2.5 Amps with 2-wire accessories. (available from many sources)
Output 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	7.75 in(197 mm)L x 5.38 in(137 mm)W x 4.88 in(124 mm)H
Shipping Weight with Cable Accessories	4.0 lbs (1.8 kg)

Declaration of Conformity: These battery charger products are designed to meet or exceed the specific requirements of: UL-1236 and CSA 22.2, Low Voltage Directive 73/23/EEC: EN 60335 Standard for Safety of Household and Similar Electrical Appliances, Electromagnetic Compatibility Directive 89/336/EEC EN50082-1:1992: EMC Generic Immunity Standard.

Design Conformance & Revision: All Deltran charger products are 100% inspected, electrically tested, and burned in 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:** Yellow Light On or Yellow Light Flashing: Monitor Circuit verifies appropriate battery voltage levels and good electrical continuity between the battery and the charger DC output.
- Step 2) Bulk Charge:** Yellow 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:** Yellow 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:** Yellow 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

- **YELLOW FLASHING** - When the yellow light is flashing, the AC power is applied to the charger and the microprocessor circuitry is functioning properly. There is no battery connected or there is a problem with the connections between the charger and the battery.
- **YELLOW** - When the yellow 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 yellow 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 neither indicator light comes 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.