TS835 CHARGING ADAPTER
USER INSTRUCTIONS

The TS835 Charging Adapter is designed to allow the TT28-12 Charger Pro to be used with True Blue Power TS835 Series Emergency Power Supply batteries. Refer to the TT28-12 User Manual for charger operation.

Controls and Indicators

LED Indicators

The three LEDs on the TS835 Adapter indicate the status of the TS835 battery and the connection to the TT28-12.

- The green ACTIVE LED indicates that the TS835 battery is no longer in sleep mode and is ready to accept a charge or allow the user to select discharge mode.
- The red DISCHARGE LED indicates that the TS835 adapter is connected to the TT28-12 in discharge mode and is ready to begin discharging in the 30% Shipping Charge mode.
- The green CHARGE LED indicates that the TS835 adapter is connected to the TT28-12 in charge mode and is actively charging the TS835 battery.
- If neither the DISCHARGE or CHARGE LED are illuminated, the TS835 adapter is connected to the TT28-12 in charge mode and is ready to begin charging in either Full Charge Mode or Full Capacity Test Mode

Control Pushbuttons

There are three pushbuttons on the TS835 Adapter.

- WAKE is used to put the TS835 battery in its active mode and allow connection to the TT28-12.
- DISCHARGE is used to put the TS835 Adapter in discharge mode so that it is ready to begin discharging in the 30% Shipping Charge mode.
- CHARGE is used to return the TS835 Adapter in charge mode so that it is ready to begin charging in either Full Charge Mode or Full Capacity Test Mode.

Operation

Overview

- The TS835 adapter is limited to 5 amps of current. If it is discharged at a rate higher than 5 amps the circuit breaker will trip to protect the adapter circuitry.
- Once started, the adapter will automatically switch between modes to allow the TT28-12 to complete a 30% Shipping Charge cycle or a Full Capacity Test cycle.
- See "Quick Start" section for operation details.

NOTE: Do not leave this adapter connected to a battery when not in use. A small current is present that will discharge the battery if left connected for an extended period of time.

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Operation

Quick Start

- Connect the TS835 Adapter to the TS835 battery. Connect the TS835 cable to the TT28-12 Battery Cable Connection

- Press the WAKE pushbutton and notice that the green ACTIVE LED illuminates. The other two status LEDs remain unlit.

- FULL CHARGE or FULL CAPACITY MODE: To start a Full Charge or Full Capacity Test Mode cycle, press the CHARGE button on the TS835 Adapter. Select the TS835 battery on the TT28-12 battery selection menu and start the cycle in accordance with the TT28-12 user manual. After charge current begins to flow the green CHARGE LED will illuminate.

- To start a 30% Shipping Charge Mode cycle, press the DISCHARGE pushbutton, then select the TS835 battery on the TT28-12 battery selection menu and start the cycle in accordance with the TT28-12 user manual.

- The TS835 Adapter will automatically switch between CHARGE and DISCHARGE modes once normal operation has started.

NOTE: Older TT28-12 Chargers do not have a TS835 battery option. In this case use the CUSTOM battery option with Amp-Hours set to 5aH, Cut-off Voltage set to 18.0V, and terminating current set to 0.1A.

Troubleshooting

Symptom	Possible Cause	Action
WAKE LED is on but no charge or discharge occurs	Tripped Circuit Breaker	Reset Circuit Breaker
Charge current does not begin and voltage is above 27.0V	Battery voltage is too high to start normal charge cycle	Press DISCHARGE button, wait until voltage drops below 27.0, press CHARGE button
Adapter does not switch from discharge to charge at end of discharge cycle	Using CUSTOM battery option, cut-off must be 18.0V	Press CHARGE button to switch modes manually.
Adapter does not switch from charge to discharge at end of charge cycle	Battery is faulty and will not allow current to taper down below the required 0.15 A.	Remove battery from service

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