



## Recharging Instructions 09/10

Updates beginning in 08/09

Fall and Winter of 2009/2010

The following **highlighted, new and/or updated sections** are from the FootWarmer m Series Operating Instructions 09/10 (first updated in 2008/2009). They are here for your reference when and as needed. Please note, they are NOT a complete set of the Operating Instructions!

### RECHARGING BATTERY PACKS

- **CAUTION - WARRANTY:** Use Hotronic's White Plug Recharger ONLY for Power Plus m4 and Power Plus m3 Battery Packs. Using other than Hotronic's White Plug Recharger voids Warranty.
- **CONDITIONING CHARGE:** When Battery Pack is new or has not been used for more than 2 months, it is very important to charge Battery Pack for 48 to 72 hours uninterrupted. Conditioning Charge brings new, unused, or unconditioned Battery Pack to full capacity potential.
- **FULLY CHARGED IN 3 HOURS OR LESS:** Hotronic's White Plug Recharger detects when Battery Pack is fully charged and automatically switches to trickle current recharging after approximately 3 hours or less of full current recharging. Fully charged, properly conditioned Battery Pack reaches full capacity potential. Fully charged, unconditioned Battery Pack does NOT reach full capacity potential. (See Conditioning Charge.)
- **RECOMMENDED OVERNIGHT RECHARGING PROCESS:** Hotronic's Recommended Recharging Process helps maintain properly conditioned Battery Pack throughout season by recharging overnight.
- **SUMMER AND LONG TERM STORAGE:** Recharge Battery Pack as per instructions for Recommended Overnight Recharging Process, turn Battery Pack off, and store without Recharger or Heating Element plugged in.
- **ELECTRIC INPUT:** Recharger accepts electric input ranging from 100-240VAC, 50-60Hz.
- **OCCASIONAL FULL DISCHARGE:** While not required of NiMH batteries, Hotronic recommends an occasional full discharge before

fully recharging to help maintain optimal strength. Use "continuous setting 4" for quickest discharge. Battery Pack is fully discharged when Heating Element is no longer warm and all LEDs are off.

### RECHARGE WHEN BATTERY PACK IS OFF:

Hotronic recommends recharging when Battery Pack is off. (Battery Pack is off when all LEDs are off.) However, Battery Pack MAY be recharged at any setting. If recharging while on setting 1, 2, 3, or 4, DO NOT CHANGE SETTING DURING RECHARGING as this may cause recharging process to stop.

1. **Plug Recharger into wall outlet** using correct plug adapter (North American, European, or other).
  - a. **Recharger performs short self-test** with brief red LED followed by brief green LED and then LED off.
2. **Attach each Battery Pack** to Recharger.
3. **Recharger LED is continuous red** when detecting Battery Pack status and during initial current and full current recharging.
  - a. **If Battery Pack status is not okay or is not compatible, Recharger LED will blink red** within 20 minutes of continuous red.
  - b. **Maximum duration for continuous red is approximately 3 hours** at which time Recharger LED becomes green.
4. **Recharger LED is green** once Battery Pack is fully charged and indicates trickle current recharging.
  - a. One Battery Pack may reach full charge before other.
5. **Battery Pack may be removed at any time** during recharging process **and may be re-attached** to Recharger at any time.



## Recharging Instructions 09/10

Updates beginning in 08/09

6. **Once Recharger LED is green or when Recommended Overnight Recharging Process is complete:**
  - a. Unplug Battery Pack from Recharger.
  - b. Unplug Recharger from wall outlet.
7. **To maintain maximum charge after recharging**, turn Battery Pack off and store without Recharger or Heating Element plugged in.
3. **Do not store (or keep overnight) Battery Pack at temperatures above 105°F (40°C)** as this will harm batteries.
4. **Do not store (or keep overnight) Battery Pack at temperatures at or below freezing (32°F) (0°C)** as it may harm batteries.
5. **Do not store (or keep overnight) Recharger at temperatures below -4°F (-20°C) or above 149°F (65°C)** as this may harm Recharger.

### TIPS ON RECHARGING

1. **When Recharger green LED is on** (trickle current recharging), Battery Pack may remain on Recharger indefinitely.
2. **However, as further protection against possible battery damage, Hotronic DOES NOT recommend leaving Battery Pack on Recharger for extended periods of time** such as 24 hours (except during Conditioning Charge), one week, or one month.
3. **To confirm wall outlet is NOT controlled by switch**, plug in Recharger, attach Battery Pack, and confirm continuous red LED status. Recharger's red LED is on continuously when outlet current is active and goes off within seconds when outlet is turned off by switch.
4. **One or two Battery Packs may be recharged on one Recharger** per above instructions.
5. **One Power Plus m4 Battery Pack and one Power Plus m3 Battery Pack may be recharged simultaneously on same Recharger.**
6. **Hotel room razor outlets** (and other Ground Fault Current Interrupter outlets) are not recommended.

### TIPS ON SUMMER & LONG TERM STORAGE

1. **For summer and long term storage**, recharge Battery Pack as per Recommended Overnight Recharging Process instructions, turn Battery Pack off, and store without Recharger or Heating Element plugged in.
2. **Prior to use after summer and long term storage**, perform Battery Pack Conditioning Charge for 48 to 72 hours uninterrupted.