

## Ultra-Fast NiMH/NiCd Battery Charger Model T-3150

### Owner's Manual

Thank you for purchasing the Ultra Fast NiMH/NiCd Charger. Please read this manual carefully. It contains important operating instructions. This Ultra Fast Charger will quickly and efficiently charge all AA or AAA Nickel Cadmium (NiCd) or Nickel Metal-Hydride (NiMH) batteries. The built-in high efficiency "switching" type power supply will adjust automatically to any voltage from 100-240VAC, for international use.

### Warning :

- Batteries are not charged as shipped. Must be charged prior to first use.
- Charge **only** NiCd or NiMH type batteries on this charger.
- **Do Not** mix NiCd and NiMH batteries together when charging or using. Keep all NiMH batteries and NiCd batteries separate.
- Batteries may leak or explode causing personal injury if inserted improperly, disposed of in fire, mixed with other battery types, or short circuited.

### Charging Instructions

1. Put the batteries ( 1-4 pieces of AA or AAA ) inside the battery compartment. Make correct contact for polarity ( + and - ) ; according to the sign in the battery compartment.
2. Plug the charger into any available 100-240VAC outlet. The built-in switching power supply will adjust automatically. When using overseas, a proper plug adaptor may be required (not supplied). The status LED will glow red when the batteries are receiving charge.
3. After charge is completed, the "status" LED will change to green to indicate that the charge is completed and batteries are ready for use. Once the status LED is green, the charger switches to "trickle" mode to keep the batteries at full.
4. Once charge is completed, remove batteries and unplug charger as soon as it is practical. Do not leave batteries in charger for extended periods of time (more than 2 days) OR when the charger is not plugged in. Unplug the charger when not in use.
5. Begin again at *Step-1* to charge the next set of batteries.

### Safety Features :

- Negative delta V cut -off function
- Safety timer to prevent over charge
- Thermal cut off
- Reverse-polarity protection
- Bad cell Detection

### Bad Cell Detection :

When charge process is started, the charger detects the health status of each of the cells in the battery compartment. If any battery is unsuitable for charging. i.e. short circuit or reversed polarity, the status LED will flash. The damage cell(s) should be properly disposed of.

### Specifications :

Power supply :	100-240VAC, 50/60Hz International Compatible
Charge rate :	1-2PCS AA 1050mA 3-4PCS AA 525mA 1-2PCS AAA 640mA 3-4PCS AAA 320mA
Trickle mode :	AAA 25mA AA 50mA
Operating temperature	0 - 35

Size/ Type	1-2 batteries	3-4 batteries
Ni-MH AA 1800mAh	105 minutes	210 minutes
Ni-MH AA 2100mAh	130 minutes	260 minutes
Ni-MH AA 2300mAh	140 minutes	280 minutes
Ni-MH AA 2500mAh	150 minutes	300 minutes
Ni-MH AAA 700mAh	75 minutes	150 minutes
Ni-MH AAA 800mAh	80 minutes	160 minutes
Ni-MH AAA 900mAh	85 minutes	170 minutes
Ni-Cd AA 800mAh	50 minutes	100 minutes
Ni-Cd AAA 300mAh	30 minutes	60 minutes

### Important Safety Instructions

1. Before charging, read instruction.
2. This charger is intended for use with Nickel-Cadmium and Nickel-metal-hydride rechargeable batteries only. Attempting to charge other types of batteries may cause personal injury and damage to the charger. Do not charge non-rechargeable batteries.
3. Recharge only one type of battery (Ni-Cd or Ni-MH) at each time.
4. Do not expose charger to rain or moisture. For indoor use only.
5. Remove from mains when not in use.
6. Never use an extension cord or any attachment not recommended by manufacturer, otherwise this may result in a risk of fire, electric shock or injury to persons.
7. Do not operate the charger if it has been subjected to shock or damage. Take it to a qualified serviceman for repair.
8. Do not disassemble the charger. Incorrect reassemble may result in a risk of electric shock or fire.
9. Unplug the charger from outlet before attempting any maintenance of cleaning. Use damp cloth to clean the surface, do not immerse into water.
10. The appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
11. This power unit is intended to be correctly orientated in a vertical or floor mount position.