

# POWEREX

## MH-C204W

### One-Hour International Traveling Charger & Conditioner for 4 AA / AAA NiMH Batteries

**Thank you for purchasing the PowerEx battery charger. Read these instructions carefully and thoroughly before operating this unit. IMPORTANT SAFETY INSTRUCTIONS. READ AND SAVE THESE INSTRUCTIONS.**

#### GENERAL PRECAUTIONS

- ? Do not charge battery cells other than NiMH. AA Batteries must be able to accept a 2.0A rapid charge current. AAA Batteries must be able to accept a 0.7A rapid charge current.
- ? Do not use one-hour quick charge mode (activated when only two batteries are inserted) on AA batteries rated under 2000mAh and AAA batteries under 700mAh. To charge them, four batteries must be inserted.
- ? When charging batteries, do not mix batteries of different capacities or brands. Failure to do so may damage the batteries.
- ? Do not expose the unit to rain or moisture due to the risk of fire.
- ? Do not operate the charger if it appears damaged in any way.
- ? Always place the battery cells with positive tip facing the top. Incorrect polarity may cause fire or explosion. Observe polarity diagram located on the charger.
- ? Do not allow the unit to be exposed to direct sunlight. Operate in well-ventilated area.
- ? Do not allow the battery terminals to become shorted.
- ? To reduce the risk of damage to the AC cord, always pull by connector rather than the cord.

#### FEATURES & SPECIFICATIONS

- ? Rapid charge two AA / AAA NiMH batteries in about one hour and four AA / AAA NiMH batteries in about two hours.
- ? Battery rejuvenation system that conditions and restores poorly performing batteries due to extended storage or lack of usage.
- ? Integrated AC power supply for worldwide operations 100-240V 50/60Hz.

Rapid Charge Current:	2.0A (two AA), 1.0A (four AA), 0.7A (two AAA), 0.35A (four AAA)
Trickle Charge Current:	50mA
Charging Cell Configuration:	Two or Four AA / AAA NiMH
Microprocessor:	Two independent circuits, capable of charging batteries simultaneously. -Delta V based.
Charge Time:	60 to 120 Minutes*
Input Voltage:	AC 100-240V 50-60Hz

\* Charge time will vary depending upon the brand, capacity, and condition of batteries being charged.

#### CHARGING BATTERIES

##### NOTE ON NEW BATTERIES CHARGING:

It is highly recommended for brand new batteries to be charged and left in the charger **overnight** for the first charge to fully activate the batteries.

1. Plug in the AC cord to the charger and attach the plug end to an outlet rated between 100-240V AC 50/60Hz. Note: when operating the charger outside of its intended region of use, a plug changer may be required to properly connect to the outlet. Do not force AC cord to incompatible outlet receptacle.
2. Battery charging is automatically initiated when the batteries are inserted. The following chart indicates proper battery placement and their respective charging time. Proper battery detection is indicated by a **solid red** light.

Battery fault, such as shorted battery or alkaline battery, is indicated by a **flashing red** light. During charging, batteries and charger will become hot. When charging is completed, the indicators will turn **green** and the batteries are ready for use. Note the two indicators may not turn green at the same time due to minor difference in battery status in each bank.



Two batteries in left bank. One hour quick charge. **Suitable for AA battery > 2000mAh & AAA > 700mAh.**



Two batteries in right bank. One hour quick charge. **Suitable for AA battery > 2000mAh & AAA > 700mAh.**



Four batteries total. Two hour quick charge.

#### BATTERY REJUVENATION

A unique function of this charger is the ability to rejuvenate aged or poorly performing batteries by subjecting the batteries to a conditioning algorithm that first fully drains the batteries and then recharges them.

Battery rejuvenation is recommended once for every ten charges. It is also recommended for batteries that have not been used or charged for more than 30 days.

1. First fully charge the batteries according to the procedure outlined in "Battery Charging."
2. Remove the batteries, allow them to cool, and re-insert them.
3. After inserting batteries, briefly press the "conditioning button" located between the two indicators. Conditioning is composed of two phases:

Discharge: Indicated by **flashing yellow** light. Typically requires five hours for fully charged batteries.

Charging: Indicated by **solid red** light.

When completed, the lights will turn **green** and the batteries are ready.

Manufactured By:

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