



MH-C204F

Intelligent Rapid Charger for
AA / AAA NiMH & NiCD

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 any other chemistry of battery cells in addition to NiCD and NiMH.
- 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 risk of fire.
- Do not operate the charger if it appears damaged in any way.
- Always place the battery cells with positive tip facing top. Incorrect polarity may cause fire or explosion.
- Always use the supplied AC adapter or cigarette lighter adapter (optional). The cigarette lighter adapter includes a fuse. CAUTION: for continued protection against risk of fire, replace only with the same type and rating of fuse.
- Do not allow the battery terminals to become shorted.
- To reduce the risk of damage to the AC power adapter, always pull by connector.

FEATURES & SPECIFICATIONS

- Rapid charge both rechargeable **Nickel Cadmium (NiCD)** and **Nickel Metal Hydride (NiMH)** AA / AAA size cylindrical battery cells.
- Conditions and rejuvenates NiCD and NiMH batteries to enhance performance.
- Microprocessor controlled rapid charge with automatic trickle charge.
- Two independent circuits, each capable of charging two batteries (AA /AAA)

Rapid Charge Current:	500mA
Trickle Charge Current:	24mA
Discharge Rate:	240mA
Charging Cell Configuration:	Two or Four AA / AAA NiCD or NiMH
Microprocessor:	Two independent circuit, capable of charging and discharging batteries simultaneously. 0deltaV based.
Charge Time:	60-240 minutes*
Input Voltage:	12VDC 500mA

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

CHARGING INSTRUCTION

For new NiMH batteries, it is necessary to cycle them three to five times before they reach peak performance. Battery cycling can be achieved simply by using the batteries and recharging them or using the charger's built-in conditioner (see below).

When using at home / office

- Plug in the supplied AC power adapter into a 110V 60Hz outlet, **without the charger attached**.
- Connect the charger (without batteries installed) to the connector-end of the AC power adapter.
- You can now place the batteries into the charger. Keep in mind that the charger consists of two independent circuitry. Therefore, you can put a set of two batteries at bank 1 (left two slots) while placing a different set at bank 2 (right two slots). **You must place either 2 or 4 batteries.**
- Whenever the batteries are inserted in the charger, always leave the charger lid open to allow better cooling.**
- After you have inserted the batteries, you can either **charge or condition** them. If you wish to charge, simply leave the batteries in the charger. If you wish to **condition**, press the buttons located in the front of the charger. Now, simply wait until the appropriate lights show to indicate a full charge.

WHAT IS CONDITIONING? *The conditioning feature rejuvenates your batteries and will eliminate the memory effect on certain batteries. It automatically discharges and then recharges your batteries. For NiMH batteries, condition the batteries once for every ten charges.*

WARM BATTERIES? *It is normal for NiMH & NiCD batteries to become warm while being rapid charged. Temperature may reach as high as 131 degree F.*

Indicator Condition	Meaning
RED	Rapid Charging
GREEN	Charge Completed
YELLOW FLASHING	Conditioning

- When the lights turn green, the batteries are ready to be used.

When using in a vehicle

(Optional Car Kit Required)

Make sure your vehicle's output voltage is between 9V to 15V, and is capable of supporting a 500mA current drain. If you have any concerns regarding this, refer to your vehicle owner's manual.

- Plug in the supplied cigarette lighter adapter into your vehicle's cigarette lighter, **without the charger attached**. Verify that the green power LED on the cigarette lighter adapter is illuminated. If LED does not light, your vehicle may need to be running in order to energize the cigarette lighter or the inline fuse may need to be replaced.
- Connect the charger to the connector-end of the cigarette lighter adapter.
- Follow steps 4-5 on the section "When using at home / office".

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