

POWEREX

MH-C800S Eight Cell Smart Charger

Thank you for purchasing the Powerex MH-C800S battery charger. Read these instructions carefully and thoroughly before operating this unit. **IMPORTANT SAFETY INSTRUCTIONS. READ AND SAVE THESE INSTRUCTIONS.**

GENERAL PRECAUTIONS

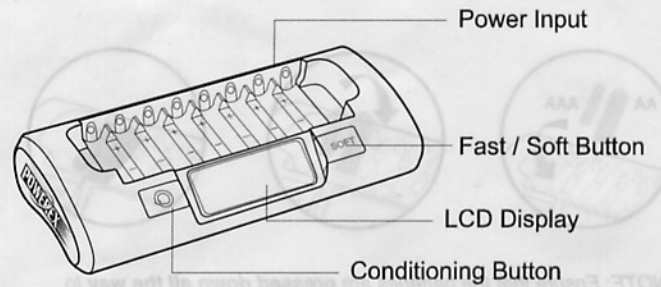
- Do not charge batteries other than NiMH or NiCd. They must be able to accept a 1.0A (Standard mode) / 0.5A (Soft mode) rapid charge current.
- Do not use the default Rapid Charge mode on batteries rated under 800mAh. To charge them, use the Soft Charging mode (refer to "Soft Charging Mode").
- Do not 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 diagrams 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 power cord, always pull by connector rather than the cord.

FEATURES & SPECIFICATIONS

- Eight independent charging slots. Charges 1-8 AA or AAA batteries.
- Selectable Rapid Charge (default) and Soft Charge mode.
- Recharge in approximately 1 to 2 hours.
- Selectable conditioning / rejuvenation cycle.
- Worldwide power supply.

Rapid Charge Current:	1.0A
Microprocessor:	Eighth-generation MH-NM7008 Powerex Precision Microprocessor
Charge Time*:	1 to 2 hours (Standard), 2 to 4 hours (Soft)
Input Voltage:	AC 100-240V 50-60Hz

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



VARIOUS MODES

This section explains various charging modes and when to use them. To enable each mode, refer to the "Operation" section.

Rapid Charge Mode (Default)

- Shortest recharging time (approximately 1 to 2 hours).
- Suitable for batteries with capacity greater than 800mAh.

Soft Charging Mode

- Maximizes battery life and performance (recharging time approximately two to four hours).
- Suitable for most batteries.
- Recommended if recharging time is not critical.

Conditioning Mode

- A special mode which rejuvenates and cycles batteries. Applies a special initial charge, discharge and recharge cycle which can restore battery performance (requires up to 16 hours to complete).
- Conditioning cycle can be used to rescue degraded batteries and exercise infrequently-used batteries.
- Recommended once every ten normal charges for NiMH batteries to ensure good performance.

OPERATION

Rapid Charge Mode (Default)

1. Connect the power supply unit DIN connector to the charger as shown in the figure below.



Then, plug the adapter into a compatible outlet (100-240VAC, 50/60Hz).

TIP: When operating the charger outside of its intended region of use, simply obtain a power cord with a suitable plug type or use a plug-changer. Transformer is not necessary.

2. Insert AA and/or AAA batteries.



NOTE: Ensure that the batteries are **pressed down all the way** to ensure optimal contact.

- When the battery is correctly inserted, charging will commence for that slot.






My battery cannot be detected, what should I do?

First, make sure the battery is properly seated. Insert the battery so that the negative end touches the charging contacts first, then tilt it forward until it clicks. You can also try removing the battery and inserting it into another slot. If the battery still cannot be recognized, it might no longer accept a charge and should be replaced.

It is normal of the charger to make a faint clicking sound, which is a result of the pulse charging.

When the charging is nearly complete, the batteries will become hot to the touch. Battery temperature will quickly drop after charging is finished.

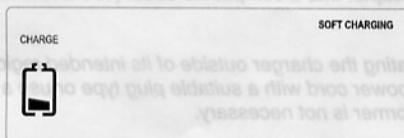
The charger is equipped with a four-level battery gauge which displays the charging progress.

<p>CHARGE</p>  <p>Flashing</p> <p>0-50% charge</p>	<p>CHARGE</p>  <p>Flashing</p> <p>50-80% charge</p>	<p>CHARGE</p>  <p>Flashing</p> <p>80-100% charge</p>	<p>DONE</p> <p>Solid or Flashing</p> <p>Charging completed.</p>
<p>CHARGE</p>  <p>Flashing</p> <p>Extremely low charge. Typically indicates abnormal or aged batteries. Conditioning is recommended.</p>		<p>CHARGE DONE</p>  <p>Flashing all together</p> <p>Battery fault</p>	

Soft Charging Mode

NOTE: Soft Charging is activated for all battery slots simultaneously and cannot be activated for each individual battery.

- Remove all batteries from the charger, if any.
- Insert **one** battery in the any slot.
- Within five seconds, press and hold the "SOFT" button until "Soft Charging" symbol is displayed on the LCD screen.

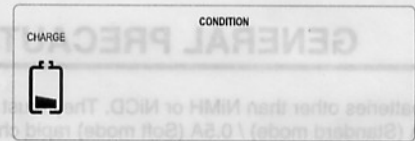


- Insert the remaining batteries.
- Soft Charging mode will remain activated as long as there are batteries in the charger (even if charging is completed). The charger will reset to Rapid Charge mode (Soft Charging symbols disappears) when all batteries are removed.





Conditioning Mode

NOTE: Conditioning is activated for all battery slots simultaneously and cannot be activated for each individual battery.

- Remove all batteries from the charger, if any.
- Insert **one** battery in any slot.
- Within five seconds, press and hold the "CONDITION" button until "Condition" symbol is displayed on the LCD screen.



- Insert the remaining batteries.
- The condition cycle will first apply an initial charge, discharge then recharge the batteries.

<p>CHARGE CHARGE CHARGE</p>  <p>Initial Charging</p>	 <p>Discharging</p>	<p>CHARGE CHARGE CHARGE</p>  <p>Standby for Recharging OR Recharging</p>	<p>DONE</p>  <p>Finished</p>
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It is normal for all symbols to disappear from one or more slots toward the end of discharge. This indicates that discharging is nearly completed and recharging will commence soon.

During discharging, batteries that finish before others will show "CHARGE" symbols. However, actual charging will not commence until all batteries have finished discharging.

It is also normal for the left side of the charger to become warmer during the conditioning cycle.

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