



Model# NC-MQH01U

www.sanyobatteries.com



SANYO Energy (USA) Corporation  
San Diego, CA 92154



## 1 Hour/AA/AAA Charger: Ni-MH/Ni-Cd Operating Instructions

### Limited Warranty

THIS WARRANTY IS VALID ONLY ON SANYO ENERGY PRODUCTS PURCHASED AND USED IN THE UNITED STATES OF AMERICA, EXCLUDING ALL U.S. TERRITORIES AND PROTECTORATES. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL RETAIL USER, AND DOES NOT APPLY TO PRODUCTS USED FOR ANY INDUSTRIAL, PROFESSIONAL OR COMMERCIAL PURPOSE. Subject to the OBLIGATIONS and EXCLUSIONS below, SANYO ENERGY (U.S.A.) CORPORATION (SEC) warrants to the original retail user of this SANYO product (the "Product"), that the Product will be free from defects in materials and workmanship for five years from the date the Product was first purchased at retail. SEC will replace Products which fail to conform to this warranty.

**OBLIGATIONS:** To obtain a replacement, deliver unit and your dated sales receipt (as proof of purchase) postage prepaid, along with a certified check or money order in the amount of \$7.95 payable to SANYO Energy (USA) Corporation (to cover handling) to: SANYO Energy (USA) Corporation, c/o UGS, 269 Executive Drive, Troy, MI 48083.

**EXCLUSIONS:** This warranty does not cover the repair or adjustment of any Product whose serial number has been altered, defaced, or removed. This warranty does not apply to replacements necessitated by any cause beyond the control of

SEC including, but not limited to any malfunction, defect, or failure caused by or resulting from unauthorized service or parts, improper maintenance, operation contrary to furnished instruction and/or warning, shipping or transit accidents, modification or repair of the Product by the user, abuse, misuse, neglect, accident, fire, flood or other acts of God, incorrect line voltage, or normal wear and tear. The foregoing is in lieu of all other express warranties and SEC does not assume or authorize any part to assume for it any other obligation or liability. THE DURATION OF ANY WARRANTIES WHICH MAY BE IMPLIED BY LAW (INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) IS LIMITED TO THE TERM OF THIS WARRANTY. IN NO EVENT SHALL SEC BE LIABLE FOR SPECIAL INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THIS PRODUCT, OR FOR ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS UNDER THIS WARRANTY DUE TO CAUSES BEYOND ITS CONTROL. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

### Specifications

GE/Sanyo Model No.	NC-MQH01U		
Voltage	AC100 - 240V		
Input	50-60Hz 14W		
Output	DC1.2V 2.3A(max.)		
LED Indication	ON steady - charging OFF stand-by or charge complete		
Battery/ Charge time (minutes) approximate	Ni-MH AA (2100/2300mAh)	1-2 batteries	60-70min.
		3-4 batteries	140-155min.
	Ni-MH AA (1850mAh)	1-2 batteries	60min.
		3-4 batteries	125min.
	Ni-MH AA (1600/1700mAh)	1-2 batteries	52-55min.
		3-4 batteries	105-110min.
	Ni-MH AAA (750mAh)	1-2 batteries	65min.
Ni-Cd AA (1000mAh)	1-4 batteries	100min.	
Ni-Cd AA (700mAh)	1-4 batteries	70min.	
Ni-Cd AAA (250mAh)	1-2 batteries	45min.	
Dimensions (L x W x H inches)	3.15" x 4.72" x 1.3"		
Weight	approx. 4.75 oz		
Manufacturer	Charger Made in China Batteries Made in Japan		

### Additional Battery Information

• **Discharge** — Batteries self-discharge (lose their charge) when not in use. **Be sure to charge them before use.** Batteries that have not been used for awhile tend to lose some of their charge.

If the batteries haven't been used for a long time, charge and then discharge the batteries 2 or 3 times before using. This will recharge the batteries to their fullest capacity.

• **Battery Life** — Charging and then discharging is possible up to 1000 times, depending on their use.

• **Operating Temperature** — Batteries are chemical products. Even when used within the recommended temperature ranges, their efficiency may vary. See recommended temperature ranges on other side.

### Additional Charger Information

• Batteries may become warm during charging. This is normal. Use caution when handling them.

• Using the charger in the same circuit as a TV, radio or similar device may cause some "noise" (electrical interference) with these devices. If this happens, try using a different electric outlet.

• Avoid charging and discharging near a heat source such as heater or in direct sunlight.

• Charging may terminate if non-rechargeable batteries are used or the temperature exceeds 104°F (40°C).

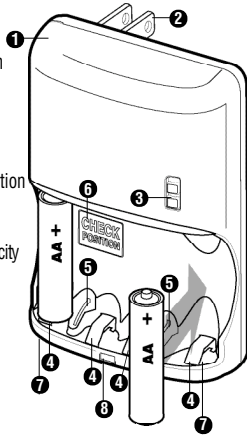
Thank you for purchasing this GE/SANYO product.

Please read and understand these instructions carefully for safe and satisfying operation.

Be sure to keep these instructions handy for future reference.

## Features

- 1 Charger (UL listed)
- 2 Foldaway plug.
- 3 Battery type selector switch (up position for Ni-MH, down position for Ni-Cd)
- 4 4 AA charging positions
- 5 2 AAA charging positions
- 6 Battery capacity check position
- 7 Quick Charge positions
- 8 LED charge indicator light-on/off for battery charge capacity. Depending on model, 2 or 4 AA 2100mAh Ni-MH batteries included (Charge before initial use).



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### CAUTION! DANGER!

Failure to comply with all of the above warnings may cause electric shock, battery damage/leakage, overheating, explosion, or fire and can result in severe personal injury and/or damage to property.

### Ni-MH & Ni-Cd: AA/AAA Batteries

#### WARNING!

- GE/SANYO batteries perform best when used with GE/SANYO chargers.
- Do not use batteries with their + (positive) and - (negative) ends (terminals) reversed.
- Do not modify in any way.
- Do not connect the + (positive) and - (negative) ends (terminals) with ANY object as this causes electricity to flow from the battery.
- Never expose to heat or fire.
- If any liquid from the battery comes in contact with clothes or skin, wash with clean water immediately and consult a doctor at once.
- Stop charging once the specified charging time is reached.
- Never allow batteries to come in contact with or be immersed in water.
- Do not connect more than 20 batteries together.
- Stop using batteries immediately if you notice anything wrong with them (such as leakage, color change or deformity).

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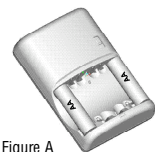


Figure A  
Quick Charge positions  
1 - 2 AA battery charge

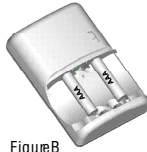


Figure B  
1 - 2 AAA battery charge



Figure C  
1 - 4 AA battery charge

3. Disconnect the charger from the electric outlet once charging is complete.
4. Remove the batteries from the charger. Batteries may become warm during charging. Use caution when handling them.
5. The batteries are now ready for use.

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## Important Safety Instructions

- **SAVE THESE INSTRUCTIONS** - This manual contains important safety and operating instructions for battery charger model NC-MQH01U.
- Before using the battery charger, read all instructions and cautionary markings on the battery charger.
- **WARNING** - To reduce the risk of injury, charge only Ni-MH and Ni-Cd AA/AAA rechargeable batteries. Other types of batteries may burst causing personal injury and damage.
- Risk of electric shock. Dry location use only.
- Use of an attachment may cause fire, electric shock or injury to persons.
- Do not operate charger if it has received a sharp blow, been dropped or otherwise damaged in any way.
- Do not disassemble charger. It may result in the risk of overheating, fire, electric shock, or personal injury.
- To reduce the risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.

### Model NC-MQH01U Battery Charger

#### WARNING!

- GE/SANYO batteries perform best when used with GE/SANYO chargers.

- Keep out of reach of infants. Children may use only under strict parental supervision.
- Do not subject the battery to strong shocks.
- Do not use charged and discharged batteries together.
- When charging do not mix Ni-MH or Ni-Cd type batteries. Use same brand batteries when charging.
- When using 2 or more batteries in a device, make sure they were charged simultaneously.
- Charge the batteries before using.
- Remove batteries from unit or device when not in use.

#### CAUTION! DANGER!

Failure to comply with all of the above warnings may cause electric shock, battery damage/leakage, overheating, explosion or fire and can result in severe personal injury and/or damage to the property.

#### Recommended temperature ranges for use:

	Ni-MH	Ni-Cd
To use (discharge) the batteries	32°-122°F (0°-50°C)	-4°-140°F (-20°-60°C)
To charge the batteries	32°-95°F (0°-35°C)	32°-95°F (0°-35°C)
To store the batteries	-4°-86°F (-20°-30°C)	-22°-95°F (-30°-35°C)

Using the batteries outside the above temperature may shorten battery life and decrease efficiency.

### BATTERY CAPACITY INDICATOR

How to use check position

1. Slide battery type switch to Ni-MH or Ni-Cd. Place 1 AA or 1 AAA size battery into the charger's check position so that the + (positive) and - (negative) ends (terminals) of the batteries correspond to the same + and - marking in the charger.
2. The LED charge indicator light will blink red for about 5 seconds.
3. The LED charge indicator light will then display the remaining capacity of the battery for about 5 seconds before returning to normal charging mode.
  - If the LED charge indicator light displays red- The remaining capacity of the battery in the check position is 50% or less.
  - If the LED charge indicator light displays orange- The remaining capacity of the battery in the check position is between 50% and 80%.
  - If the LED charge indicator light displays green- The remaining capacity of the battery in the check position is 80% or more.

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- Do not immerse in water or use in humid area such as in a bathroom.
- Insert batteries correctly by matching + (positive) and - (negative) ends (terminals) of the battery to the same + and - position in the charger.
- Disconnect charger from electric outlet before cleaning, maintenance or when not in use.
- Be sure to use charger with correct voltage only AC 100-240V.
- Disconnect charger from outlet promptly once charging is complete.
- Never handle charger or batteries with wet or moist hands.
- Be sure to charge batteries between 32°F - 95°F (0°C - 35°C).
- Do not insert any objects (such as a screwdriver or metal wires) into the charger.
- Do not modify or disassemble.
- If something appears wrong with the charger and/or batteries, disconnect from the electric outlet immediately and contact GE/Sanyo toll free at (800) 832-4872 M-F 9 am - 5pm EST. Inquiries by email anytime to cs@sec-ugs.com
- Keep out of reach of infants. Children may use only under strict parental supervision.
- Store in a dry cool place.

## Operating Instructions

### LED CHARGE INDICATOR LIGHT

Light is on (steady) while charging and turns off automatically when charging is complete.

#### HOW TO CHARGE

1. Slide battery type switch to Ni-MH or Ni-Cd. Place 1 to 4 of AA or 1 to 2 of AAA size batteries into the charger so that the + (positive) and - (negative) ends (terminals) of the batteries correspond to the same + and - marking in the charger. For fastest charging time of 1 to 2 AA batteries, insert them into the Quick Charge positions (Figure A). For charging 1 to 2 AAA batteries, use center positions (Figure B). **NOTICE:** AA and AAA batteries should not be charged simultaneously. Electrical performances are not guaranteed when AA and AAA batteries are charged together.
2. Fold out foldaway plug and insert into an electrical outlet of AC 100-240V. The LED charge indicator will be red, and battery charging begins. (**NOTE** Do not insert or remove batteries during this charging process). When charging is complete, the charge indicator light turns off. The charging cycle time depends on battery type and the condition of the battery. See chart on the other side.

## Maintenance Instructions

- Periodically clean the + (positive) and - (negative) terminals of the charger and batteries with a dry cloth.
- Dirt build-up may prevent batteries from being charged.
- The charger and batteries should be kept clean and free of dirt and dust at all times.
- If the plastic of the charger becomes dirty, use a damp cloth to remove the dirt, then dry with a dry cloth. Let it dry completely before using. Use only a dry cloth for charger's metal terminals and batteries.

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