

Sunpak PicturesPlus 60 Minute Battery Charger

Cat. no. ACC-M1073-01

Owner's Manual

Thank you for purchasing this Sunpak 60 Minute Charger. Please read this manual carefully. It contains important operating instructions. This charger will quickly and efficiently charge all AA or AAA Nickel Metal-Hydride (Ni-MH) and Nickel-Cadmium (Ni-Cd) batteries. The built-in high efficiency "switching" type power supply will adjust automatically to any voltage from 100-240 VAC for international use.

Warning:

- Batteries are not charged when shipped. Batteries must be charged prior to first use.
- Charge **only** Ni-MH and Ni-Cd type batteries with this charger.
- Batteries may leak or explode causing personal injury if inserted improperly, disposed of in fire, mixed with other battery types, or short-circuited.

Features:

- Recharges 2 or 4 AA or AAA Ni-MH or Ni-Cd batteries at a time.
- Built-in switching power technology for worldwide (100-240 VAC) use
- Microprocessor Controlled – Batteries life protected by negative delta V cut-off function and timer protection.
- Temperature sensors to prevent batteries from being damaged by over-heating
- Automatic charging current selection for AA & AAA batteries.
- Equipped with 2 LED lamps to indicate charging mode:
 - Flashing Green LED – Quick charge;
 - Green LED light on – Trickle charge (after full charge);
 - LED goes Off – Cells are not suitable for charging (Bad cell detection).
- Smart channels designed against wrong polarity

Charging Instructions

1. Insert 2 or 4 AA/AAA rechargeable Ni-MH or Ni-Cd batteries into the battery compartment; battery must be charged in pairs.
2. Make correct contact for polarity (+ and -) according to the sign in the battery compartment.
3. Plug the charger into any available 100-240 VAC outlet. The built-in switching power supply will adjust automatically. When using overseas, a proper plug adaptor may be required (not supplied). The Green LED will glow and flash when the batteries are receiving charge.
4. After charge is completed, the Green LED will stop flashing and stay on to indicate that the charge is completed and batteries are ready for use. Once the Green LED lights, the charger switches to "trickle" mode to maintain the batteries at full charge.
5. 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.

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 the process is started, the charger detects the condition 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 **NOT** light on and off. The damaged cell(s) should be properly disposed of.

Specifications:

Power supply:	100-240 VAC, 50/60Hz International Compatible
Charge rate:	2PCS AA 1600mA 4PCS AA 800mA 2PCS AAA 900mA 4PCS AAA 450mA
Trickle mode:	AA 50mA AAA 30mA
Operating temperature	0° C - 35° C

Charging Time:

Size/ Type	2 batteries	4 batteries
Ni-MH AA 1600mAh	60 minutes	120 minutes
Ni-MH AA 1800mAh	68 minutes	136 minutes
Ni-MH AA 2100mAh	80 minutes	160 minutes
Ni-MH AA 2300mAh	88 minutes	176 minutes
Ni-MH AA 2500mAh	96 minutes	192 minutes
Ni-MH AA 2700mAh	104 minutes	208 minutes
Ni-MH AAA 700mAh	48 minutes	96 minutes
Ni-MH AAA 800mAh	54 minutes	108 minutes
Ni-MH AAA 900mAh	60 minutes	120 minutes
Ni-MH AAA 1000mAh	66 minutes	132 minutes

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

Important Safety Instructions

1. Before charging, read instructions.
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.
3. Do not expose charger to rain or moisture. For indoor use only.
4. Unplug when not in use.
5. 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.
6. Do not operate the charger if it has been subjected to shock or damage. Return it to Sunpak for repair.
7. Do not disassemble the charger. Incorrect reassembly may result in a risk of electric shock or fire.
8. Unplug the charger from outlet before attempting any maintenance or cleaning.
9. The appliance is not intended for use by children or without supervision.
10. This power unit is intended to be correctly orientated in a vertical or floor mount position.
11. Before disposing your charger, remove the batteries from the unit and return to Sunpak for proper disposal

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