

# **Instruction Manual of**

## **CH-V6988 IC-Controlled 10 Channels Ni-MH and Ni-CD Smart Battery Charger**



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**Below is instruction manual of CH-V6988 IC-Controlled 10 Channels Ni-MH and Ni-Cd Smart Battery Charger**

**Microprocessor Controlled Ni-CD & Ni-MH Battery Charger  
Model V-6988**

**OPERATING INSTRUCTIONS**

You can mix to charge ONE to TEN pieces of AA or AAA batteries with different capacity or different types(Nickel-Metal-Hydride and Nickel-Cadmium) in this charger at the same time.

**CHARGING WITHOUT PRIOR DISCHARGING**

This charger has equipped with the microprocessor to control each charging slot.

1. Connect the mains adaptor's output jack to the battery charger.
2. Insert 1 to 10 pieces of AA or AAA Ni-Cd/Ni-MH cells in the battery compartment.
3. Plug the AC adaptor into a correct house-hold electric outlet. The red LED will light up and the quick charge mode starts. At the end of the charge cycle, the red lights will turn to green color and the trickle charge mode is on. Then, the charged batteries are ready for use.
4. Unplug the AC adaptor from the mains. Remove the batteries from the charger when not in use.

**CHARGING WITH PRIOR DISCHARGING**

This charger has equipped with a discharge function.

1. Connect the mains adaptor's output jack to the battery charger.
2. Insert 1 to 10 pieces of AA or AAA Ni-Cd/Ni-MH cells in the battery compartment.
3. Plug the AC adaptor into a correct house-hold electric outlet. Press the "charge/discharge change-over" red button once within 30 seconds to start the discharging process. The red LED will light up and flash to indicate that the discharge mode is started. (When you press the button again within 30 seconds, the charger will shift to the quick charge mode without discharging.) When the battery has discharged, the red lights will automatically stop flashing and light up to indicate the quick charging mode. At the end of the charge cycle, the red lights will turn to green color and the trickle charge mode is on. Then, the charged batteries are ready for use.
4. Unplug the AC adaptor from the mains. Remove the batteries from the charger when not in use.

**SPECIAL FEATURE - detection of bad cell**

The microprocessor will detect the status of the battery at the beginning of charging process. Insert the batteries in charging slots; **do not press the "charge/discharge change-over" button**. If the battery is not suitable for recharging, the red LED lights will switch-off and stop charging. Defective batteries are indicated by:

- a) LED indicator off
- b) LED indicator blinking

**CHARGING/DISCHARGING TABLE :**

The following types and capacities of batteries are suitable for use with this charger.

Size	Type	Capacity in mAh	Charging Time (Approx.)	Discharging Time of a Full Battery (Approx.)
AAA	Ni-Cd	180	1 hour	¾ hours
AAA	Ni-MH	500	2¾ hours	*2 hours
AAA	Ni-MH	600	3¾ hours	*2½ hours
AAA	Ni-MH	700	4 hours	*2¾ hours
AA	Ni-Cd	600	3¾ hours	2½ hours
AA	Ni-Cd	700	4 hours	2¾ hours
AA	Ni-Cd	900	5 hours	3½ hours
AA	Ni-MH	1200	6¾ hours	*4¾ hours
AA	Ni-MH	1500	8½ hours	*6 hours
AA	Ni-MH	1600	9 hours	*6½ hours
AA	Ni-MH	1800	10 hours	*7 hours

\*Ni-MH batteries can be recharged without prior discharge.

**TECHNICAL DATA :**

Input	DC 12V 800mA USE WITH 230V ADAPTOR PS-1208A
Charge current: AAA, AA	Constant pulse current 250 mA/h
Trickle charge current: (AAA, AA)	1/10 constant pulse current
Discharge current: AAA, AA	250mA
Detect Method	-ΔV
Max. Timer Protection	12 hrs

**CAUTION :**

Do not expose charger to rain or moisture. For indoor use only. 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.