

HME

®

AC850 Battery Charger

OPERATING INSTRUCTIONS

The AC850 Battery Charger is a four-port unit for charging the BAT850 NiMH Rechargeable Battery Pack, used with the PRO850 Wireless Intercom. AC850 maximum charging time is 3 hours, for a fully discharged battery pack. To operate the AC850, follow the instructions below.

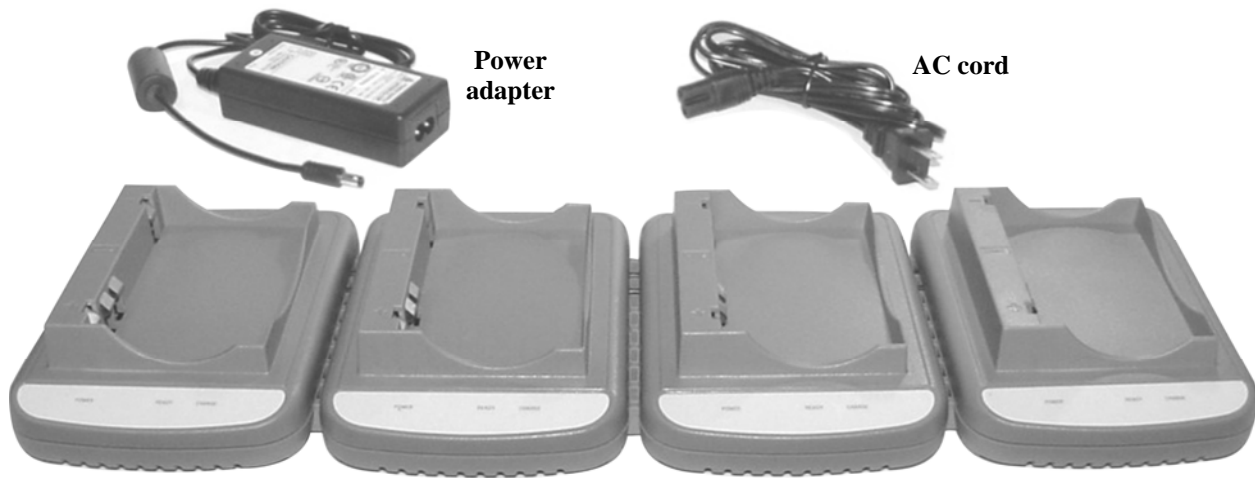


Figure 1.

AC 850 Battery Charger

SETUP

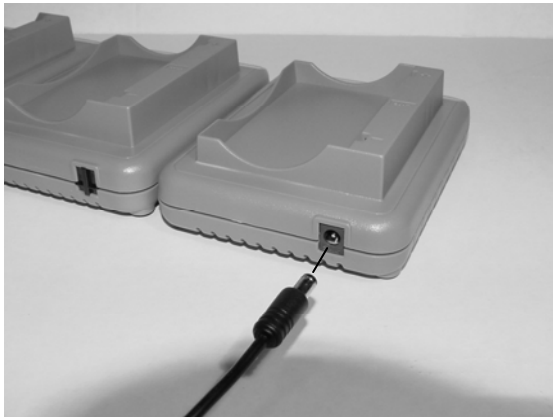


Figure 2.



Figure 3.

- Plug the connector on the power adapter cable into the receptacle on back of the AC850 as shown in Figure 2.
- Plug the female connector on the AC cord into the power adapter as shown in Figure 3.
- Plug the other end of the AC cord into an electrical outlet.

A red POWER light adjacent to each of the four charging ports should come on when the power cord is plugged in. The POWER lights will remain on as long as the unit is plugged in.

OPERATION

Place a room temperature BAT850 battery pack into a charging port on the battery charger as shown in Figure 4, with the + and – signs on the battery adjacent to the + and – signs on the port.

- A steady amber CHARGE light should come on adjacent to the charging port, indicating the battery pack is receiving a fast charge.
- A blinking amber CHARGE light would indicate the battery pack is receiving only a trickle charge. There are several conditions that would limit the pack to this type of charge. The first condition would be when the battery or charger port is too warm, or if the battery or charger port is too cold. The second condition is when the battery is below a specified voltage, which can occur when a battery has been overly discharged. If this happens, leave the battery pack in the charging port. When the correct temperature range is reached, and/or the required voltage is reached, fast charging will begin and the amber CHARGE light will remain steady.
- A steady green READY light will come on adjacent to the charging port when the battery pack is fully charged.

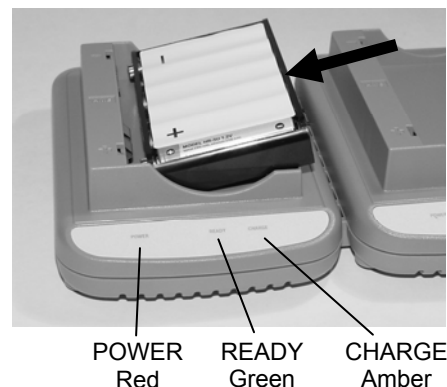


Figure 4.

In general, the capacity of an NiMH battery is dramatically affected by the battery temperature during the charge and discharge cycles, and by the rate of discharge. The capacity is further influenced by the age of the battery and overall usage and storage history.

The AC850 battery charger monitors and controls the charge of each battery in three different ways: 1) voltage sensing circuitry, 2) thermal cutout sensors and 3) maximum charge time of three hours. Under varying conditions, any one of these control circuits could cause the battery charger to stop charging prior to a full charge.

Depending on a battery's state of health, it may require multiple charge cycles to reach a fully-charged state. This is especially true with new batteries, or batteries under heavy usage. A new battery could take as many as three separate charge cycles to reach full charge.

Under heavy-use conditions, it is strongly recommended that each battery be subjected to an additional charge cycle at least once a week (twice a week if possible). After the charge cycle terminates, the battery should be allowed to cool down for an hour and then put back into the charger for another charge cycle. This will ensure that each battery is reaching full capacity and the cells are balanced.

It is normal for Nickel Metal Hydride (NiMH) batteries to become very hot toward the end of the charging cycle. This is an integral requirement of the charging process.

Fully charged battery packs can be left in the charging port indefinitely without harm. The green READY light will remain on until the battery pack is removed from the port.

SPECIFICATIONS

AC850 Battery Charger:

Power Input	15VDC, under 65 watts maximum
Operating Temperature *	32°F - 104°F (0°C - 40°C)
Number of Charging Ports	4 for BAT850 Rechargeable Battery Packs
Charging time	3 hours maximum (for uncharged or fully discharged battery packs)
Status Indicators	POWER (red), 4 ea CHARGE (amber), 4 ea READY (green), 4 ea
Weight	2.28 lb (1.03 Kg) with power supply and AC cord
Dimensions	16.3"W x 5.4"D x 1.7"H (41cm x 14cm x 4.1cm)

BAT850 Battery Pack:

Battery type	7.2V 2100mAh NiMH rechargeable battery pack
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* **NOTE:** At elevated ambient temperatures (near 104°F, 40°C), charging times and battery capacities may be dramatically reduced.

Waste Electrical and Electronic Equipment (WEEE)

The European Union (EU) WEEE Directive (2002/96/EC) places an obligation on producers (manufacturers, distributors and/or retailers) to take-back electronic products at the end of their useful life. The WEEE Directive covers most HME products being sold into the EU as of August 13, 2005. Manufacturers, distributors and retailers are obliged to finance the costs of recovery from municipal collection points, reuse, and recycling of specified percentages per the WEEE requirements.

Instructions for Disposal of WEEE by Users in the European Union

The symbol shown below is on the product or on its packaging which indicates that this product was put on the market after August 13, 2005 and must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of the user's waste equipment by handing it over to a designated collection point for the recycling of WEEE. The separate collection and recycling of waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local authority, your household waste disposal service or the seller from whom you purchased the product.

