

QUANTUM HAM BATTERY

OPERATING INSTRUCTIONS

IMPORTANT

Charging your Quantum Ham Battery properly is the most important procedure to follow. Please remember this:

- **Never** discharge the battery to complete exhaustion. It is not a ni-cad and doesn't need "conditioning" to erase "memory".
- **Always** charge the battery fully after use, and **always** store it fully charged.

Please see other instructions under CHARGING.

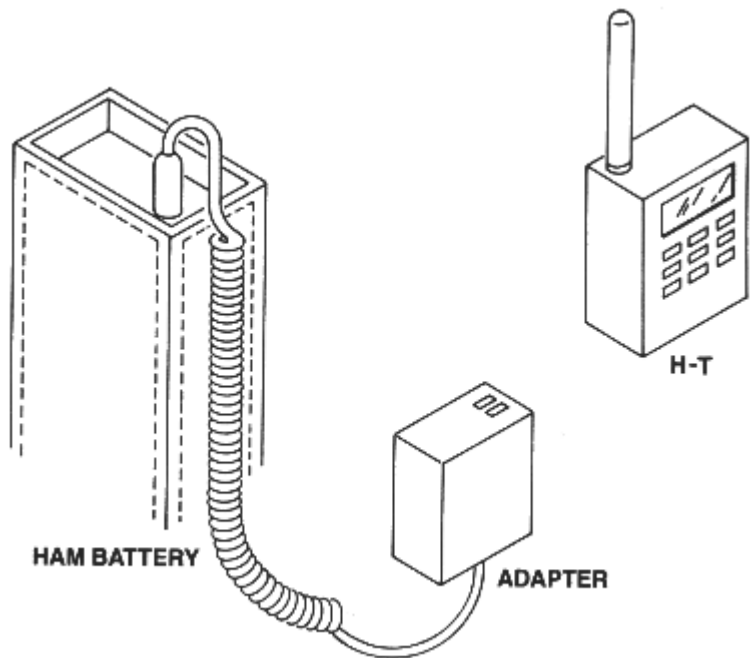
INTRODUCTION

The Quantum Ham Battery supplies 12-13 volt power for Handi-Talkies. It is powered by a 2.1 amp-hour high-rate, sealed lead battery. The battery cells are excellent for hot and cold weather operation, and they maintain a high state of charge for months (instead of days or weeks like conventional ni-cads).

The Quantum Ham Battery (QHB) excels in performance for emergency communications, backpacking/wilderness operation over several days, or for any intense H-T use at full power output. Quantum has perfected the technology with over 7 years experience in powering professional photoflash equipment.

To use your QHB, a separate Adapter is required to connect it to the H-T. Several types of Adapters are available to fit popular H-T models. Please consult your dealer or Quantum Instruments Inc. directly for the latest types.

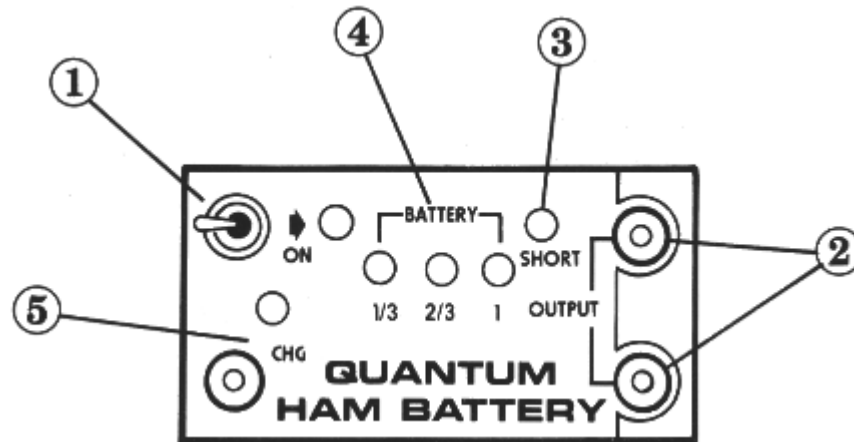
In addition, there is a universal power cord, model HB0, which can be wired to any empty H-T battery compartment, or to any 12-13 volt equipment.



CONTROLS, LIGHTS, & FUNCTIONS

1) ON/OFF switch. **Always** switch off when finished. The yellow indicator lights when ON.

- 2)OUTPUTS. Plug the adapter plug in here until it "clicks" in. Two outputs are provided so you can power two H-T's simultaneously.
- 3)SHORT! indicator. If this lights it means the internal circuit breaker has tripped. Switch off immediately. There is either a short or an overload. The circuit breaker will reset automatically in a few seconds.
- 4)BATTERY indicators. These monitor the approximate power remaining in the battery. When transmitting some lights may go out, however, the status of the battery is most accurately displayed in the receive mode.
Do not operate when no green indicators light. **Recharge immediately.**
- 5)Charger jack and indicator.



OPERATION

Connect the proper Adapter to your H-T. Plug the Adapter into the QHB.

Important. If you have wired your own module using the universal HB0 power cord, carefully check polarity prior to connecting! Otherwise you may cause damage to your equipment.

Turn power on and off with the switch on the QHB. In this way you will not drain the battery accidentally.

CHARGING

Switch the QHB off. Disconnect the HT from the QHB. Plug the charger into the QHB charger jack and into a 117 VAC outlet. The yellow CHG indicator will light.

Charge for 10 hours, minimum. You may recharge a partly or fully discharged battery to full power without fear of battery "memory". We recommend "topping off" the QHB with an overnight charge, prior to use, for maximum performance.

We do not recommend leaving the battery on charge more than 3 days.

CAUTION. Do not operate a device (HT etc.) off of the QHB while charging. The normal charging voltage may damage your equipment.

CARE & MAINTENANCE

- 1)If not used for long periods, recharge every 6 months, or sooner, to maintain maximum recharge life.
- 2)Store at room temperature. Recharge indoors at room temperature.

3) Operate between -40° to 122°F (-40° to 50°C).

4) In case of trouble -

- Check for proper Module seating in your H-T.
- Be sure Adapter plug is fully "clicked" into the QHB.
- Is the H-T switched on?
- Was the charger connected to a live outlet?

BATTERY REPLACEMENT & RECYCLING

When the capacity of the battery diminishes substantially, the cells can be economically replaced by sending the QHB and charger to Quantum Instruments, Service Department. (Used cells will be recycled.)

SPECIFICATIONS

Battery Type: Industrial high rate gel electrolyte

Power: 12 volt, 2.1 amp-hours (25 watt-hours)

Maximum Current Drain: 3 Amps (sum of both outputs)

Size / Weight: 7" x 3" x 1.75" / 36 ounces

Outputs: Two available for simultaneous operation.

Charging: 115 VAC regulated charger included. Charging light.

Output Protection: Automatic resetting circuit breaker. Indicator lights when tripped.

Temperature Range: -40° to 122°F (-40° to 50°C)

Number of Recharges: 250-1000 depending upon depth of discharge.



CONTAINS SEALED LEAD ACID BATTERY.

MUST BE RECYCLED OR DISPOSED OF PROPERLY.

DO NOT PLACE USED BATTERIES IN YOUR REGULAR TRASH!

Return this battery to a federal or state approved sealed lead battery recycler.
This may be where you purchased the battery.