

# **How to Revive NiMh /NiCd Single cell & NiMh / NiCd battery pack.**



**AA Portable Power Corp**

<http://www.batteryspace.com>

2700 Rydin Road Unit C. Richmond, CA, 94804 USA.

Tel: 510-525-2328

Fax:510-439-2808

- Equipment:** DVM (Digital Multimeter)  
12V DC 0.5 Amps AC Adaptor
- Environment:** Rubber Gloves  
Non Fire Hazard
- Important:** Intend for someone who has at least basic knowledge about electricity
- Reason:** Over discharge or  
Battery pack voltage too low for charger to recognize

**How to revive individual NiMh / NiCd cell:**

- 1) Use DVM to measure the battery voltage. (Normal: 1.2V per cell). If the voltage is less than 1.0V, you may try to revive the battery.
- 2) Charge the cell with the 12Vdc 0.5A AC adaptor (make sure polarity is correct) for no more than 3 seconds (or till voltage read 1.0V) as shown in picture 1.
- 3) Measure the battery again; the voltage should increase to at least 1.2v. If the measurement is still shown less than 1.0v, it is a dead cell and cannot be revive.



Picture 1

**How to revive NiMh /NiCd battery pack:**

- 1) Use DVM to measure the output voltage of the battery pack.  
Calculation = Rated battery voltage / the number of cells.  
If the result is less than **1.0V/cell**, then you can try to revive the pack.
- 2) Charge the cell with the 12V DC 0.5Amp AC adaptor with correct polarity for 1 minute (or close to rated voltage) as shown in picture 2.
- 3) Measure the voltage again. It should increase at least 80% of rated voltage. Then you may connect the battery pack to the charger to continue charging. If it is still less than 50% of initial voltage, there is a “dead” cell (0.0V) in the pack.



Picture 2