

The Doc's Battery Test Report

Battery Details

Brand	Dynacharge 1800
Size	AAA AA C D 9V 6V
Type	Ni-MH Ni-Cd RAM Alkaline Titanium
Current in mAhs	1800
Stated Voltage	1.5 volts 1.2 volts
Number of batteries	Single Set of 2 Set of 4
Battery Set used	Set 1
Times charged before test started	11
Charger used to charge	Rezap RBC883 Vanson Speedy Box UBA4
Time Batteries charged in charger	See UBA graph.

Test Procedures

Spreadsheet name	Digitor1700NiMH-AA-Set1.123 (Discharge data file)
UBA file name	Digitor1700NiMH-AA-Set1-10.uba (Charge file)
Select Resistance 5 or 10 ohms	5 ohms 10 ohms
Voltage cut off	3.5 volts 3.6 volts
Date of test	02/05/04

Summary of test

Voltage	Starting voltage 5.8 volts, cut off voltage 3.6 volts
Test duration	6,054 seconds or 100.9 minutes
Max Battery Temp	29.0 degrees Celsius
Min Battery Temp	24.6 degrees Celsius

Methodology

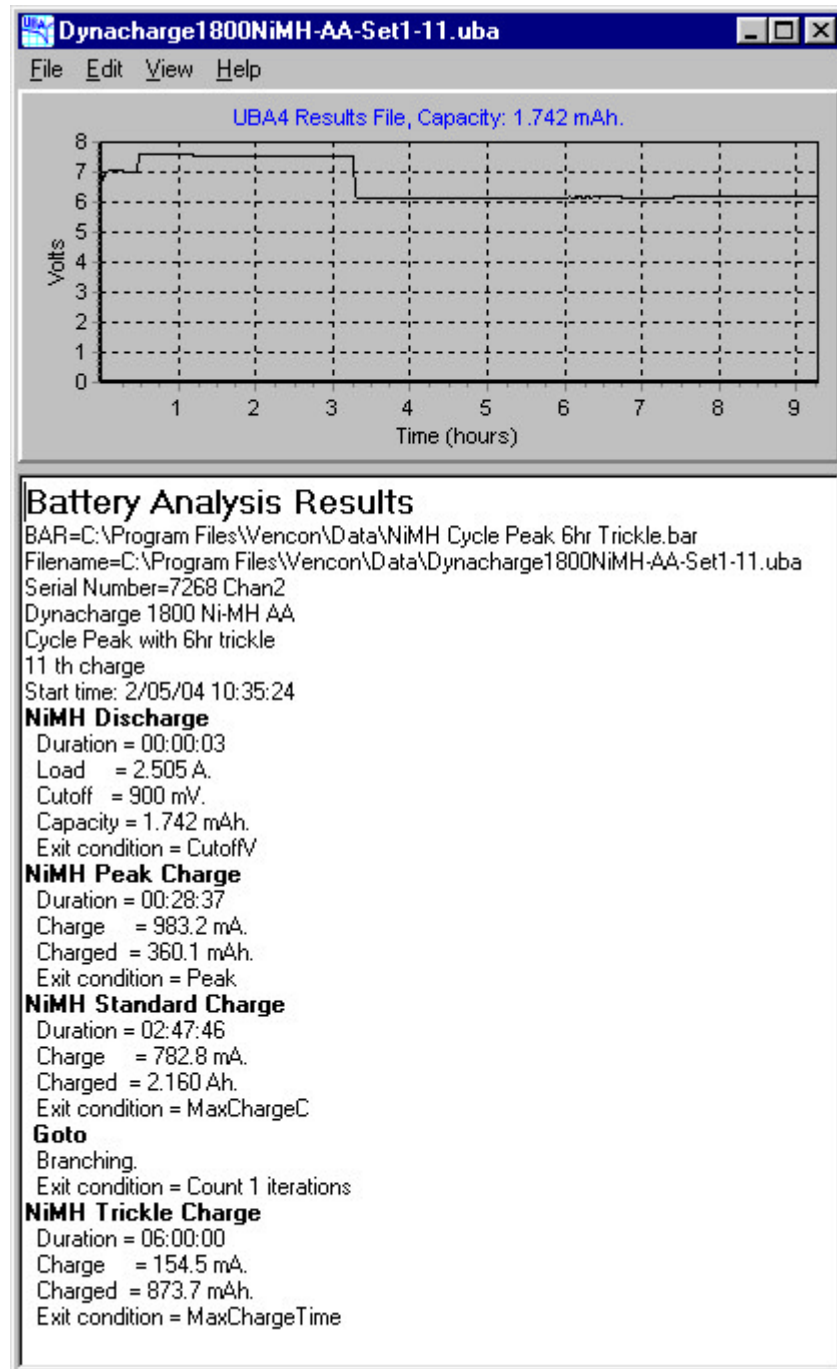
The battery set being tested has been charged at least 5 times. The charge actually used in the test is noted above. The battery set is charged in a Universal Battery Charger (UBA4). It is then tested under a load of 5 ohms, in the scientific dooverlackie. The following pages give various data, including:

1. charging information from the UBA4;
2. a graph of the voltage during the test (cut off voltage being 3.6 volts);
3. a graph of the battery temperature during the test; and
4. a graph of the battery temperature verse ambient air temperature during the test.

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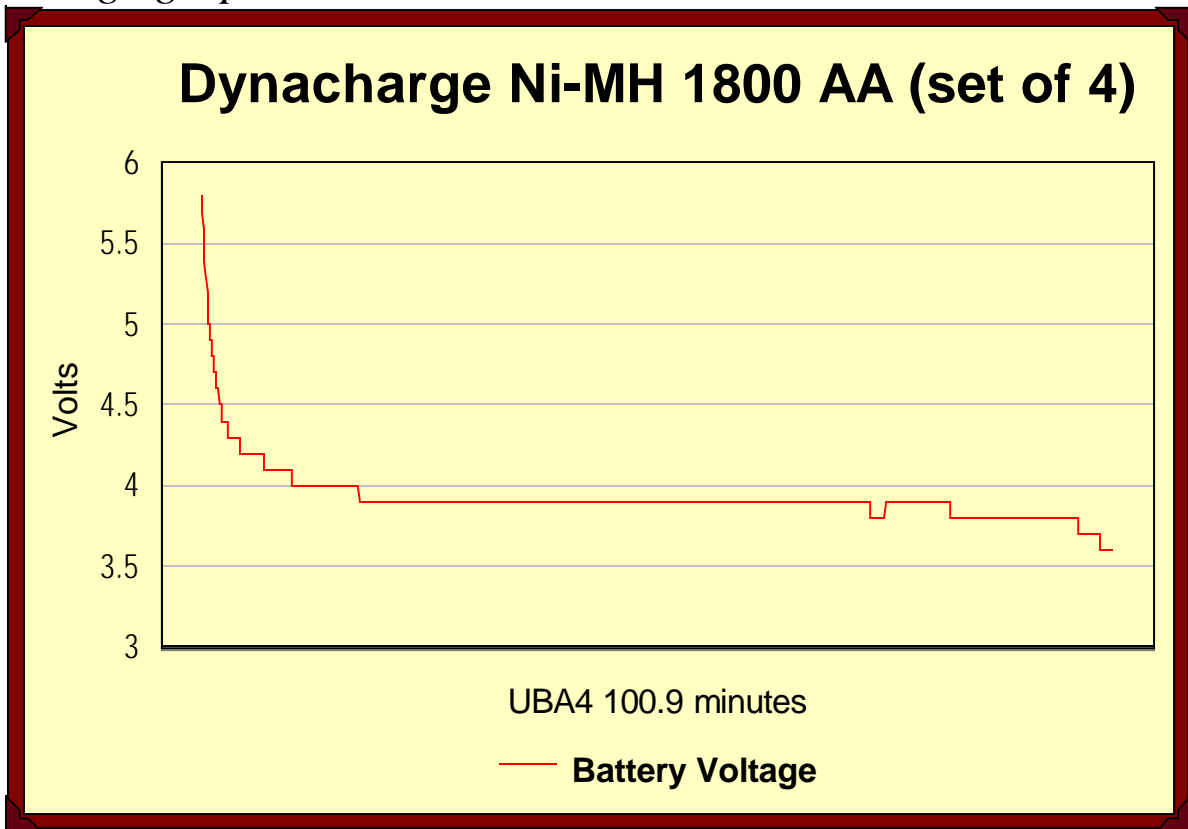
UBA report

The graph and charging information from the UBA4.

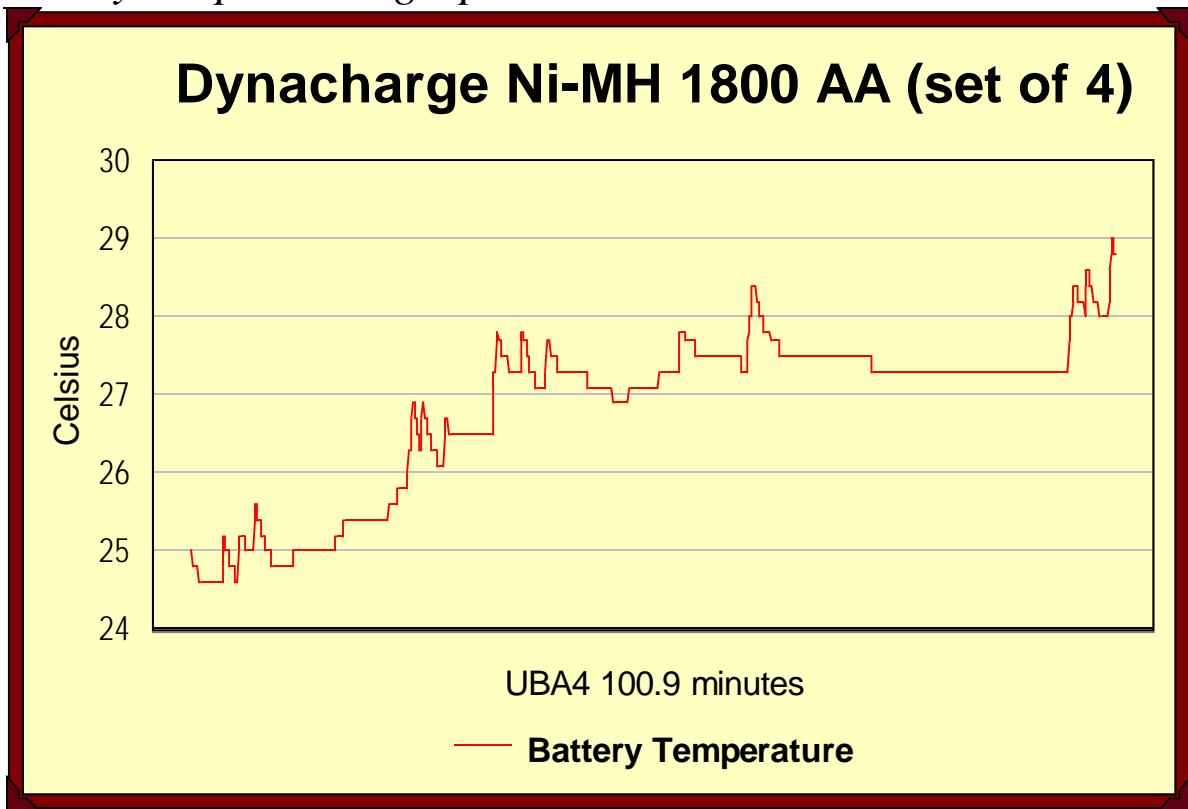


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Voltage graph

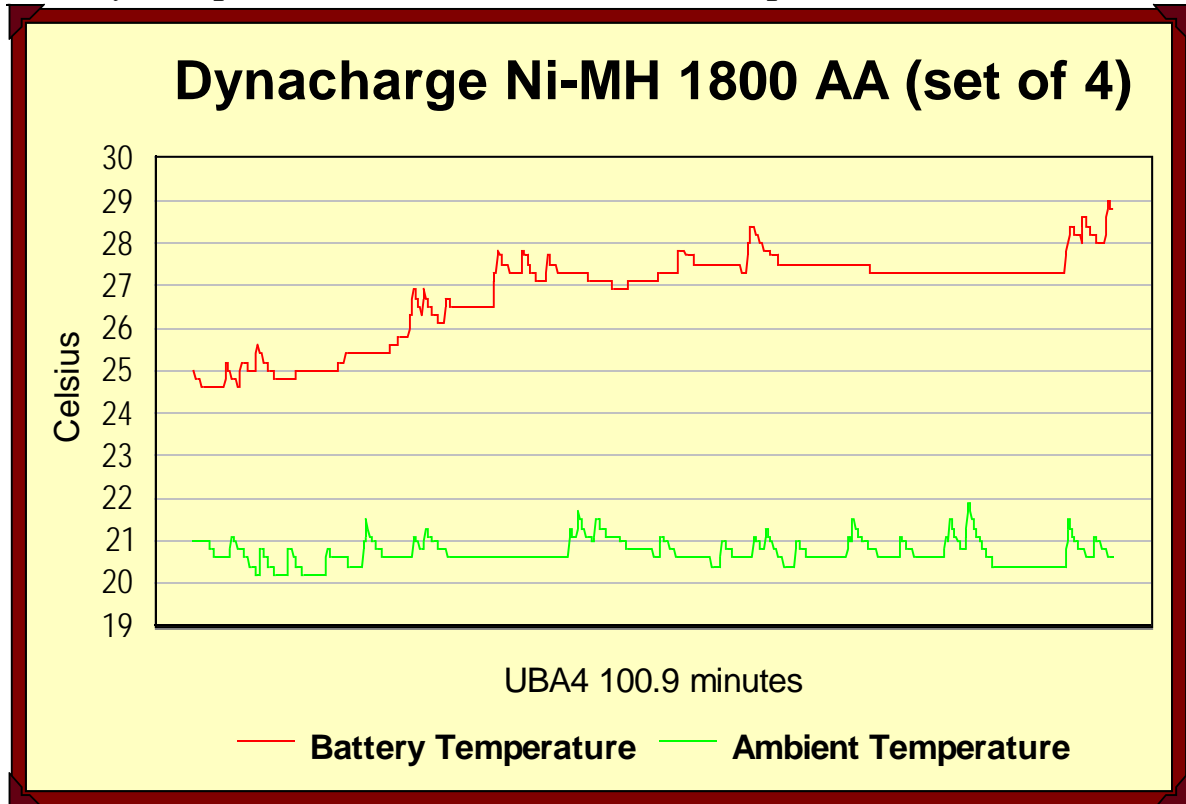


Battery temperature graph



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Battery temperature -v- Ambient air temperature



Conclusion

Dynacharge are apparently made by Duracell. The batteries are well made, but are only modest performers. Their rating is more like 1600 mAh, than the stated 1800 mAh. Better value can be found elsewhere.

Run Time (5 ohm)	100.9 minutes
Battery build quality	Good
Place of Origin	China

Report date: 17 July 2004

<http://www.users.on.net/mhains/>

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