

The Doc's Battery Test Report

Battery Details	
Brand	Unbranded 1000
Size	AAA AA C D 9V 6V
Type	Ni-MH Ni-Cd RAM Alkaline Titanium
Current in mAhs	1000
Stated Voltage	1.5 volts 1.2 volts
Number of batteries	Single Set of 2 Set of 4
Battery Set used	Set 2
Times charged before test started	5
Charger used to charge	Rezap RBC883 Vanson Speedy Box UBA4
Time Batteries charged in charger	See UBA graph..

Test Procedures	
Spreadsheet name	Unbranded1000NiCd-AA-Set1.123 (Discharge data file)
UBA file name	Unbranded1000NiCd-Set1-11.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	12/01/04

Summary of test	
Voltage	Starting voltage 5.8 volts, cut off voltage 3.6 volts
Test duration	3,940 seconds or 65.66 minutes
Max Battery Temp	31.5 degrees Celsius
Min Battery Temp	27.7 degrees Celsius

Methodology

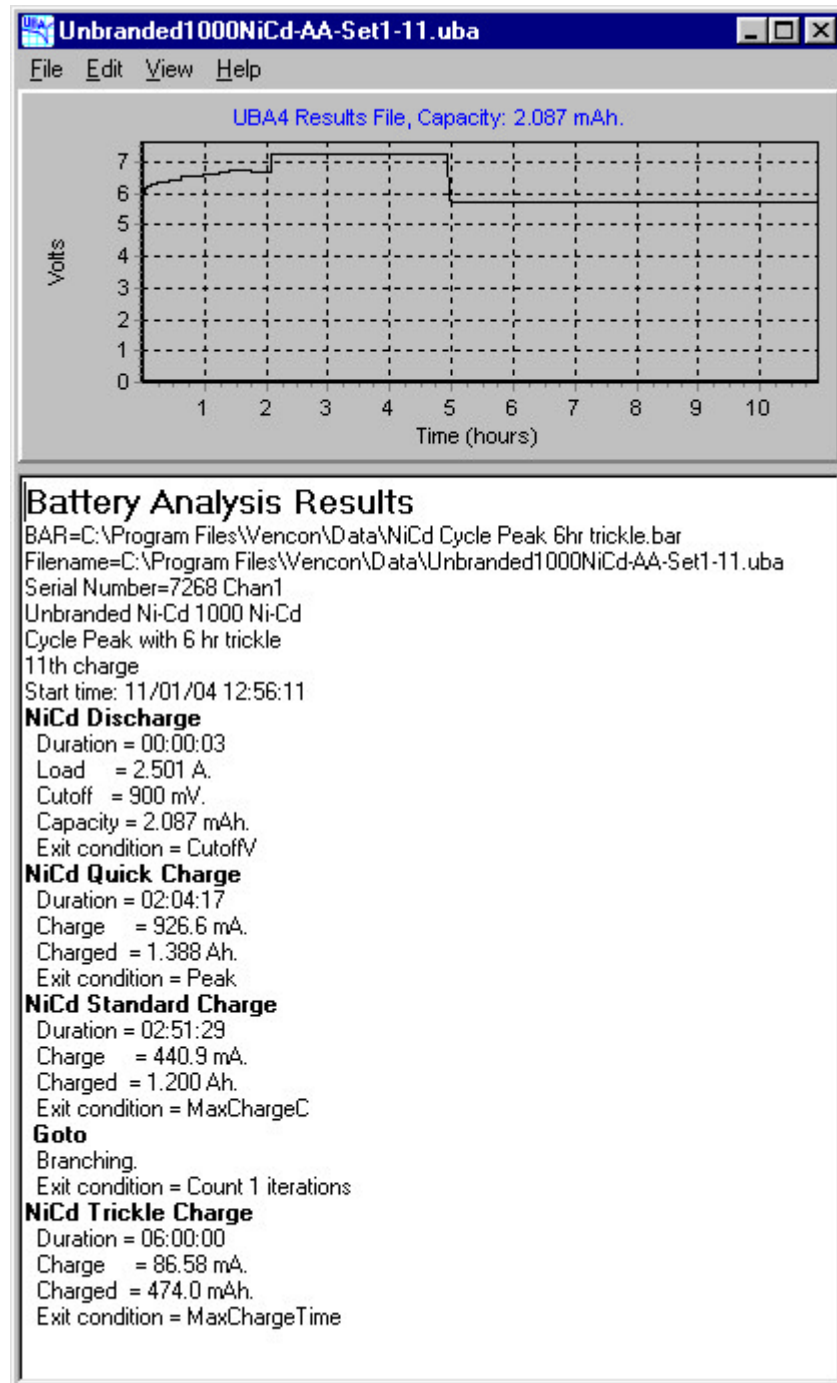
The usual methodology was used here. The following pages give various data, including:

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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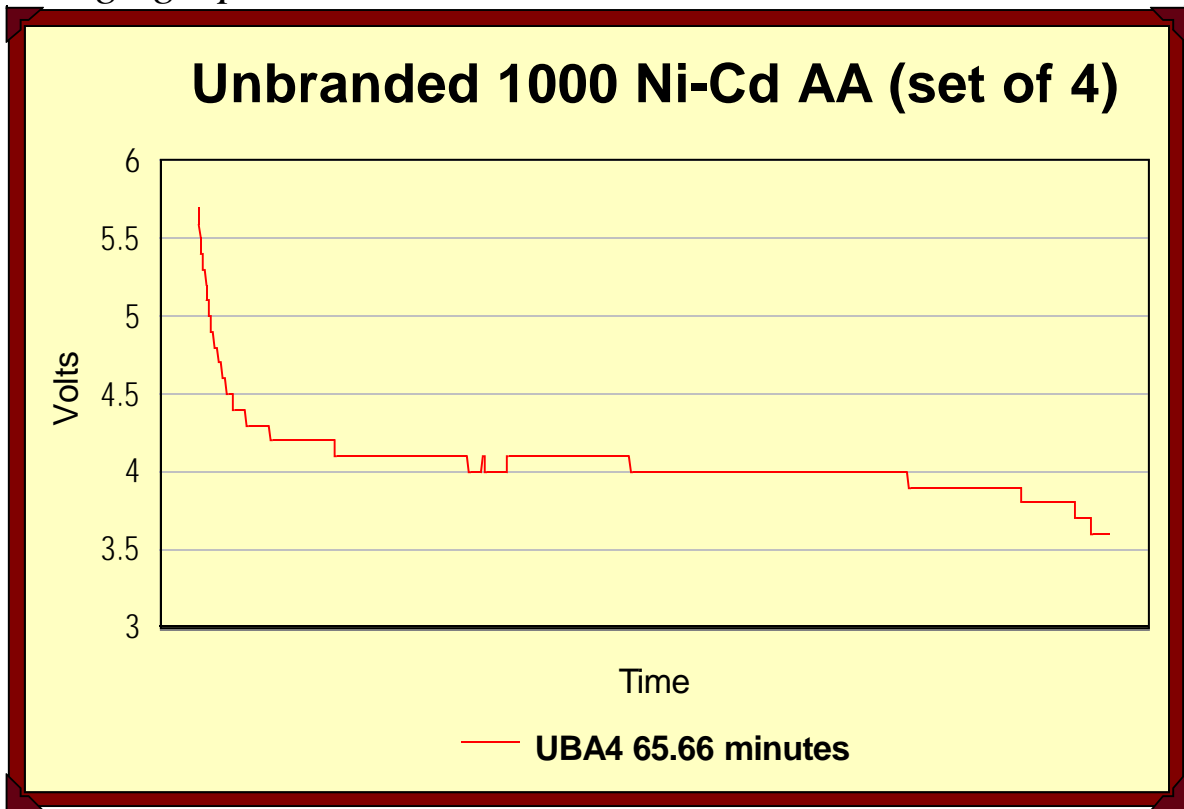
UBA report

The graph and charging information from the UBA4.

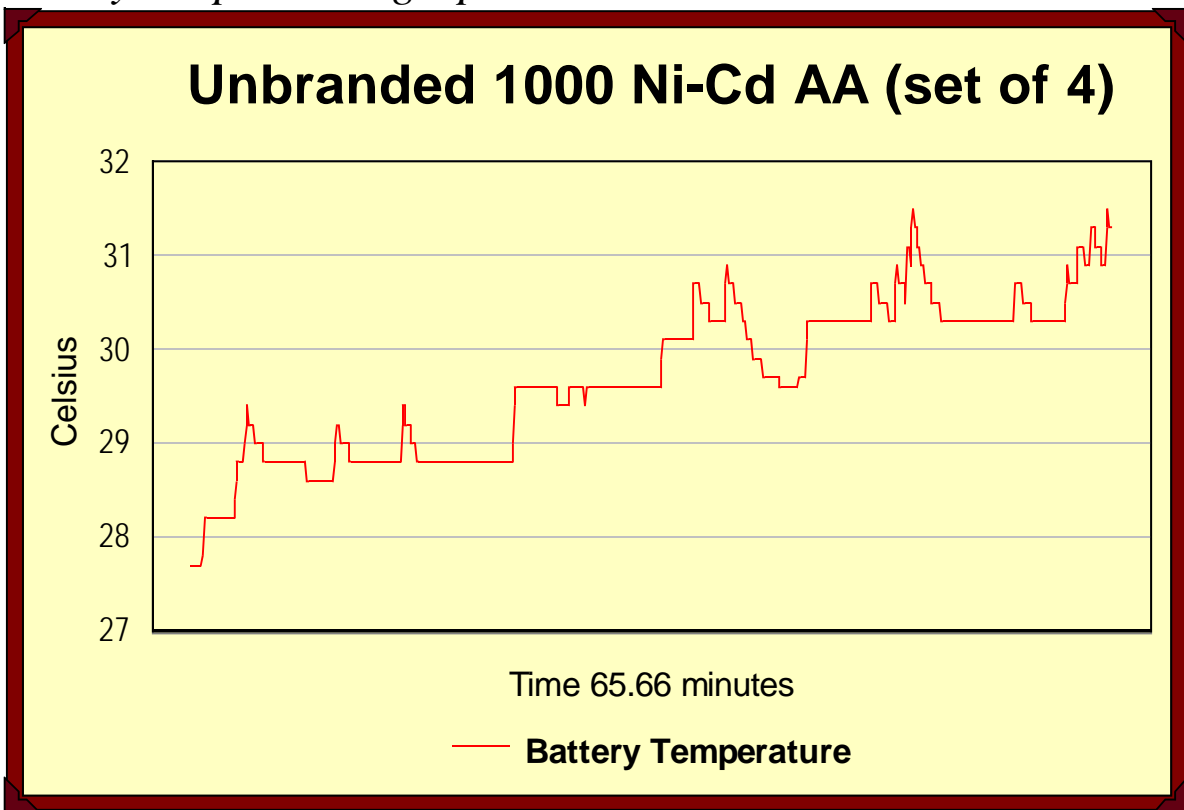


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Voltage graph



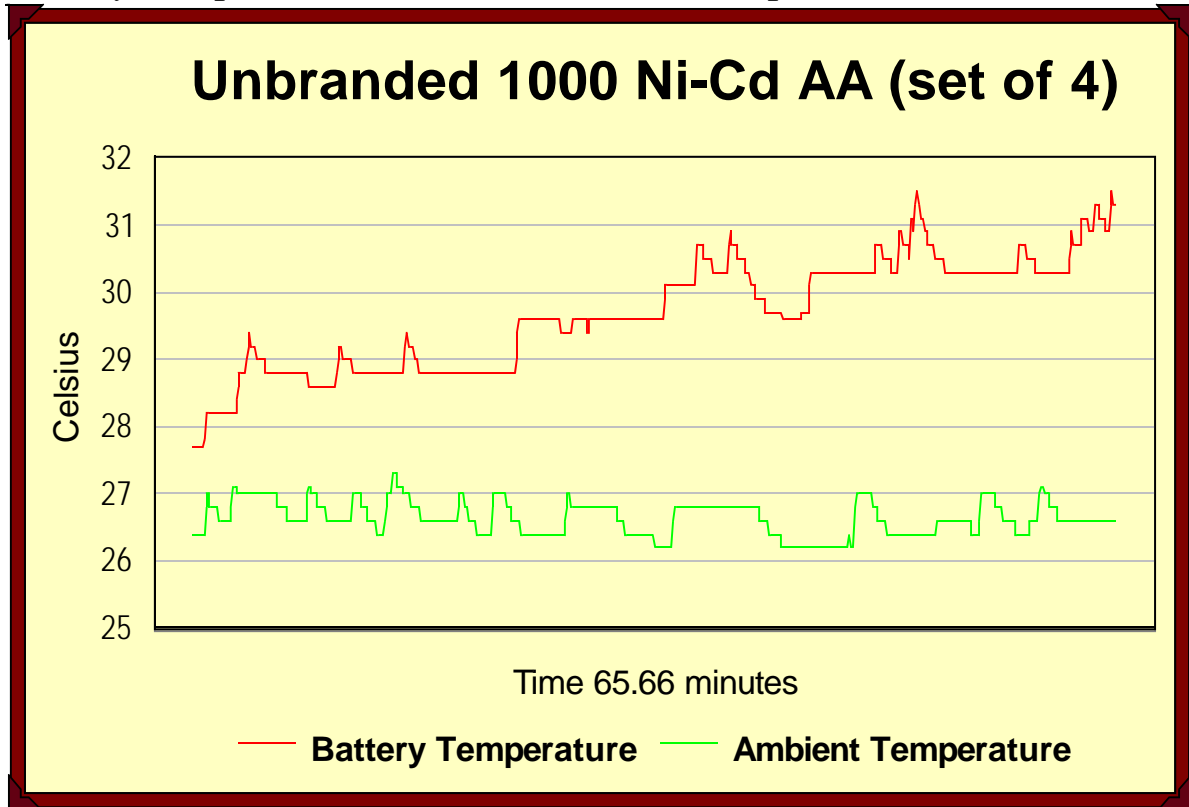
Battery temperature graph



Note the battery temperature rises as the battery discharges more energy.

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Battery temperature -v- Ambient air temperature



Conclusion

The Doc was disappointed by the performance of these batteries. Rated at 1000 mAh they should have clearly outperformed the Arlec 600 mAh, but they did not. The Arlecs went for 52.48 minutes, while the Unbranded 1000 mAh lasted 65.66 minutes. That equates to a rating of about 800 mAh, rather than 1000 mAh. Better value elsewhere says the Doc. If time permits The Doc will do tests of the Ni-Cd batteries at 10 ohm to see if there is a material difference in performance.

Run Time (5 ohm)	65.66 minutes
Battery build quality	Good
Place of Origin	China
Cost (set of 4)	AUD\$13.40

Report date: 12 January 2004

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