

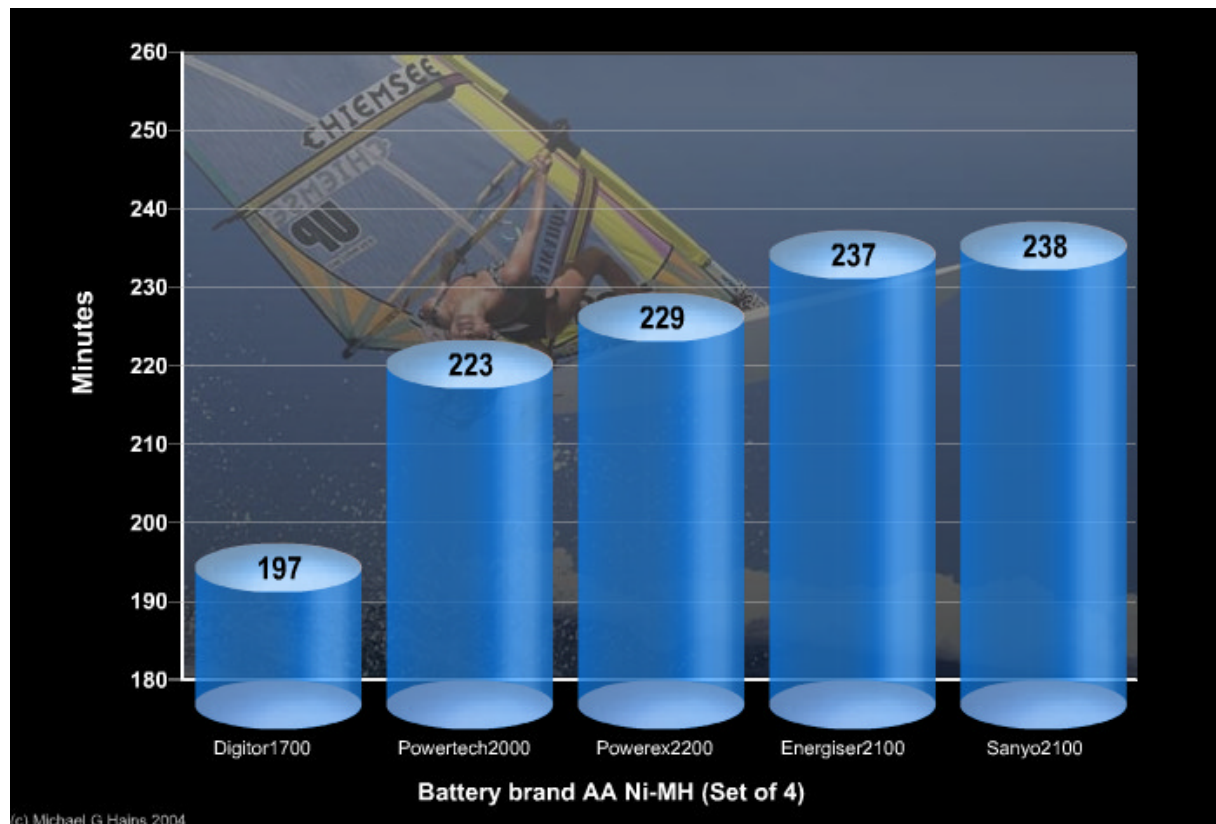
The Doc's Battery Test Report

The 10 ohm shootout

The format of this Report is different for the others. Not all devices that use AA batteries are as high drain as a digital camera. Gameboys and portable CD players use far less energy in a given period. In this test The Doc wanted to test several batteries at 10 ohms rather than 5 ohms. Even at 10 ohms the test is draining more power than a Gameboy or CD player. While the UBA is a very good charger to use for testing. Most people do not have such a charger. So The Doc charged all the batteries in a PowerBase C-T3. The Doc then allowed about 20 minutes for the batteries to return to room temperature before testing. This is closer to what may occur in the real world. The contenders are:

- ◆ Digitor 1700 Ni-MH AA;
- ◆ Powertech 2000 Ni-MH AA;
- ◆ Powerex 2200 Ni-MH AA;
- ◆ Energiser 2100 Ni-MH AA; and
- ◆ Sanyo 2100 Ni-MH AA.

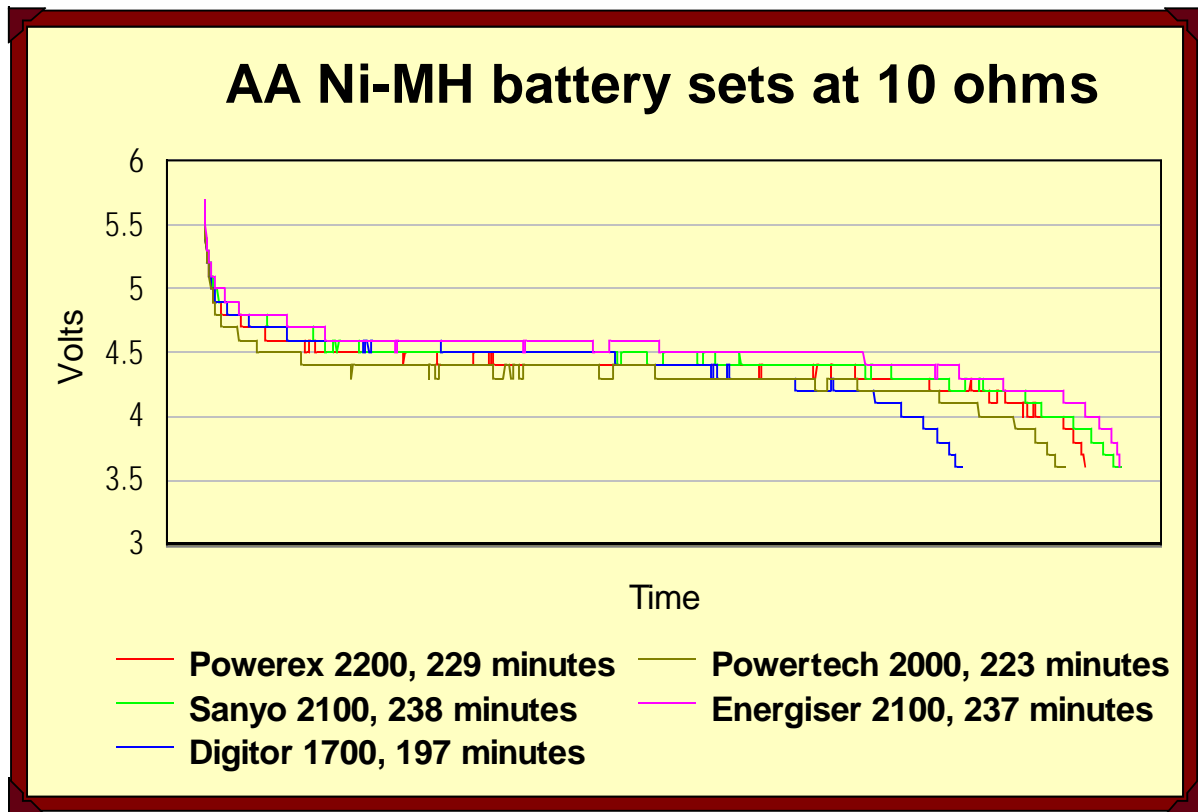
All the battery sets, except the the Digitor, remained cool during charging. The Digitor did become warm, but not nothing to worry about. Not one to beat around the bush, here are the results (with a surprise or two):



The Sanyo 2100 carries the day. The Energiser is a rebadged Sanyo 2100, so its performance should be about the same, and it is. The Sanyo not only wins, it does so by nine minutes, no small margin.

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Here is the voltage data graphed against time.



A few observations: first, the lower rated Sanyo 2100's outperform the Powerex 2200 at 10 ohms, the Powerex's having a slight advantage at 5 ohms. Secondly, runtime is rounded up to the next minute. Lastly, while The Doc has not done the calculations, it is likely that more energy is discharged by the battery set at 10 ohms than at 5 ohms. As the battery chemistry is better suited to the lower load.

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

thedoc@internode.on.net