



# Nickel metal hydride battery wikipedia

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""?,?AB<sub>5</sub>,A()(Ti);B(Ni)?(Co)?(Mn),()(Al)?""AB<sub>2</sub>,A(Ti)(V),B(Zr)(Ni),(Cr)?(Co)?(Fe)()(Mn)? &#91;5&#93;

200511,"eneloop",20?7085%,375%&#91;3&#93;,190%?380%570%??AAA800mAh?AA2000mAh,,AA2500mAh&#91;6&#93;?1000,1500&#91;3&#93;,2100?,-20?)?&#91;3&#93;?,500,?,??

NiH<sub>2</sub> cells using 26% potassium hydroxide (KOH) as an electrolyte have shown a service life of 15 years or more at 80% depth of discharge (DOD)&#91;8&#93; The energy density is 75&#160;Wh/kg, 60&#160;Wh/dm<sup>3</sup>&#91;2&#93; specific power 220&#160;W/kg.&#91;3&#93; The open-circuit voltage is 1.55&#160;V, the average voltage during discharge is 1.25&#160;V.&#91;9&#93;

While the energy density is only around one third as that of a lithium battery, the distinctive virtue of the nickel-hydrogen battery is its long life: the cells handle more than 20,000 charge cycles&#91;4&#93; with 85% energy efficiency and 100% faradaic efficiency.

The development of the nickel hydrogen battery started in 1970 at Comsat&#91;17&#93; and was used for the first time in 1977 aboard the U.S. Navy's Navigation technology satellite-2 (NTS-2).&#91;18&#93; Currently, the major manufacturers of nickel-hydrogen batteries are Eagle-Picher Technologies and Johnson Controls, Inc.

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