



Nickel metal hydride battery wikipedia

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""?,"AB5,A()(Ti);B(Ni)?(Co)?(Mn),()(Al)?""AB2,A(Ti)(V),B(Zr)(Ni),(Cr)?(Co)?(Fe)()(Mn)? [5]

200511,"eneloop",20?7085%,375%[3],190%?380%570%??AAA800mAh?AA2000mAh,,AA2500mAh[6]?1000,1500[3],2100?,-20?)?[3]?,500,?,??

NiH₂ 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)[8] The energy density is 75 Wh/kg, 60 Wh/dm³[2] specific power 220 W/kg.[3] The open-circuit voltage is 1.55 V, the average voltage during discharge is 1.25 V.[9]

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[4] with 85% energy efficiency and 100% faradaic efficiency.

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

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