NIMH - TECHNICAL DATA SHEET - MODEL ESP1600AAH

Battery General Specification:

Model - ESP1600AAH

Chemical Material - Nickel Metal Hydride.

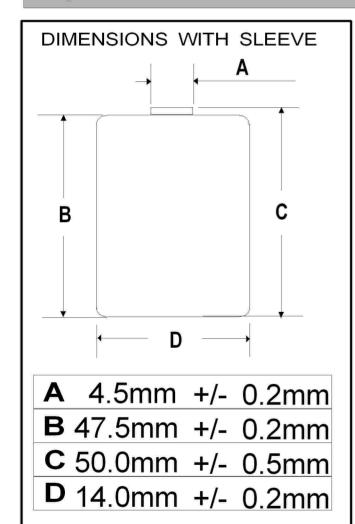
Description - 1.2v Rechargeable battery AA size with Pip top.



Discharging:

- (A) Discharge current.
- 1/ Discharged at 0.2CA, Provide 80% at EPV 1.2V 98% of nominal capacity at EPV 1.1V.
- 2/ Discharged at 0.5CA, Provide 70% at EPV 1.2V 95% of nominal capacity at EPV 1.1V.
- 3/ Discharged at 1CA, Provide 60% at EPV 1.2V 93% of nominal capacity at EPV 1.1V.
- 4/ Discharged continuously at 1C, for 2 hours, No explosion or leakage.
- (B) Capacity and Cycle (500 to 800 cycles)
 - Charge at 0.1C, discharge at 0.2C; 100% nominal capacity.
 - Charge at 1C, discharge at 1C; minimum 95% nominal capacity.

Physical and Electrical Specifications.



Nominal Voltage			1.2v
Typical Capacity			1600mAh
Weight			24g
Internal resistance.			20mΩ
Charge	Standard		160mA x15.0hrs
	Quick		480mA x 4.5hrs
	Rapid		1000mA x 2.4hrs
Discharge	160m	(0.1C)	64min (0.1C)
	320m	(0.2C)	60min (0.2C)
	1600m/	Δ (1C)	55min (1C)
Ambient temperature	Charge	Standard	d 0 ⁰ to 45 ⁰ C
		Quick	0 ⁰ to 40 ⁰ C
	Discharge		-20 ⁰ to 65 ⁰ C
	Storage		-20 ⁰ to 45 ⁰ C

Discharge Temperature at 0.2CA

- 1/ At 20⁰C, 100% nominal capacity.
- 2/ At 0⁰C, 90% nominal capacity.
- 3/ At 60⁰C, 0r -20⁰C, 85% nominal capacity.
- 4/ Charge retention for 30 days at 20⁰C, cell can provide 70% nominal capacity discharged at 0.2CA.

CELLS MANUFACTURED TO GB/T19001:2000 - ISO9000/9001: 2000 STANDARD & CONFORMITY Cell & Battery specifications are subject to modifications without prior notice. All the above information is generally discriptive and is not intended as a guarantee or warranty.

