

NIMH - TECHNICAL DATA SHEET - MODEL ESP2000AAH

TECHNICAL DATA SHEET

Battery General Specification :

- Model - ESP2000AAS
 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		2000mAh							
		Weight		24g							
		Internal resistance.		20mΩ							
Charge	Standard	200mA x 15.0hrs									
	Quick	555mA x 4.5hrs									
	Rapid	1050mA x 2.4hrs									
Discharge	200mA	64min									
	400mA	60min									
	2000mA	55min									
Ambient temperature	Charge	Standard	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								
<table border="1"> <tr> <td>A</td> <td>4.5mm +/- 0.2mm</td> </tr> <tr> <td>B</td> <td>47.5mm +/- 0.2mm</td> </tr> <tr> <td>C</td> <td>50.0mm +/- 0.5mm</td> </tr> <tr> <td>D</td> <td>14.0mm +/- 0.2mm</td> </tr> </table>		A	4.5mm +/- 0.2mm	B	47.5mm +/- 0.2mm	C	50.0mm +/- 0.5mm	D	14.0mm +/- 0.2mm		
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B	47.5mm +/- 0.2mm										
C	50.0mm +/- 0.5mm										
D	14.0mm +/- 0.2mm										

Discharge Temperature at 0.2CA

- 1/ At 20⁰C, 100% nominal capacity.
- 2/ At 0⁰C, 90% nominal capacity.
- 3/ At 60⁰C, Or -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 descriptive and is not intended as a guarantee or warranty.

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