

NICAD - TECHNICAL DATA SHEET - MODEL ESP1050AA

TECHNICAL DATA SHEET

Battery General Specification :

- Model** - ESP1050AA
Chemical Material - Nickel Cadmium.
Description - 1.2v Rechargeable battery
 AA size with Consumer
 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.

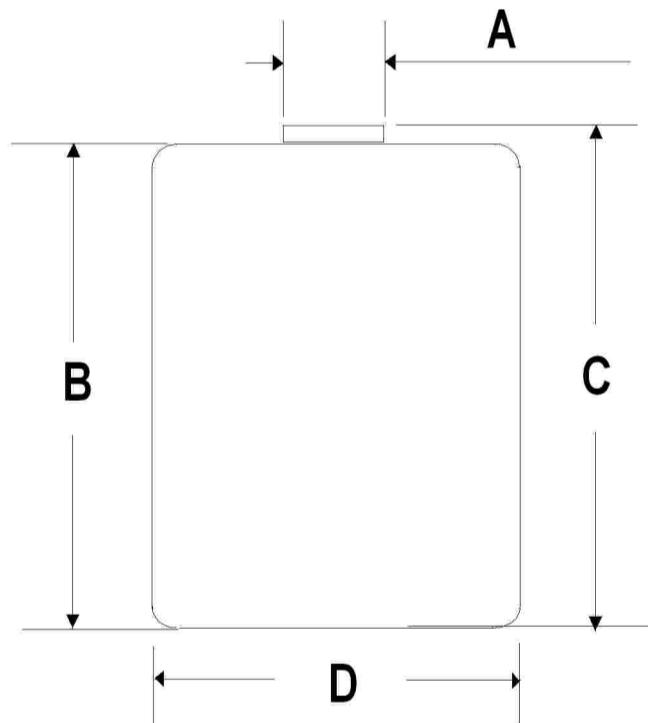
(B) Capacity and Cycle (500 to 800 cycles)

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.

DIMENSIONS WITH SLEEVE



A	04.8mm +/- 0.2mm
B	48.0mm +/- 0.2mm
C	50.0mm +/- 0.5mm
D	14.0mm +/- 0.2mm

Nominal Voltage		1.2v	
Typical Capacity		1050mAh	
Weight		21.3g	
Internal Impedance (after charge)		≤ 25mΩ	
Charge Time.	Standard	14 - 15hrs	
	Quick	4 hrs	
	Rapid	1.5hrs	
Charge Current.	Standard	105mA	
	Quick	394mA	
	Rapid	1050mA	
Ambient temperature	Charge	Standard	0 ⁰ to 45 ⁰ C
		Quick	10 ⁰ to 45 ⁰ C
	Discharge		-20 ⁰ to 60 ⁰ C
	Storage		-20 ⁰ to 30 ⁰ C

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.

ESP1050AA