

NIMH - TECHNICAL DATA SHEET - MODEL ESP3000SCH

TECHNICAL DATA SHEET

Battery General Specification :

- Model** - ESP3000SCH
Chemical Material - Nickel Metal Hydride.
Description - 1.2v Rechargeable battery
 Sub C size.



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			
		Nominal Voltage	
		≥ 1.2v	
		Nominal Capacity	
		≥ 3000mAh	
		Weight	
		≥ 56g	
		Internal resistance.	
		≤ 12mΩ	
Charge	Standard	300mA x 15hrs	
	Quick	900mA x 4hrs	
	Rapid	(see note below)	
Discharge	300mA (0.1c)	≥ 64min	
	550mA (0.2c)	≥ 60min	
Ambient temperature	Charge	Standard	0o to 45oC
		Quick	0o to 40oC
	Discharge		-20o to 65oC
	Storage		-20o to 45oC
A 10.0mm +/- 0.2mm B 42.0mm +/- 0.2mm C 42.5mm +/- 0.2mm D 22.0mm +/- 0.2mm			

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.

Note on rapid charge.

There will be no danger in charging at 0.67C or 1.5 Hours.
 But there is a possibility it will shorten the cyclic life of the cell.
 Suggested quickest charge rate is of 0.3C

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.

ESP3000SCH