



NIMH Size : AA2100RTU-3 Technical Specification 2010

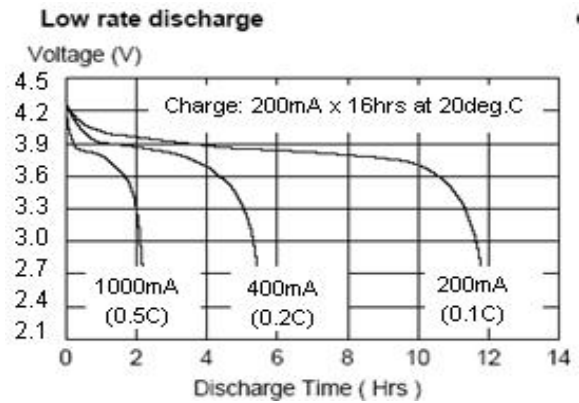
Nominal Voltage :	3,6 V	
Nominal Capacity	min. 2000 mAh	at 0.2C discharge to 1.0V after 16h/0.1C charge*
Weight ± 5 g :	86 g	
Int. Resistance :	≤100 mΩ	at 1 kHz

Charge Characteristics

Standard Charge :	16 h x 0.1 C (200mA)
Fast Charge :	2.5 h x 0.5 C (1000mA)

Discharge Characteristics

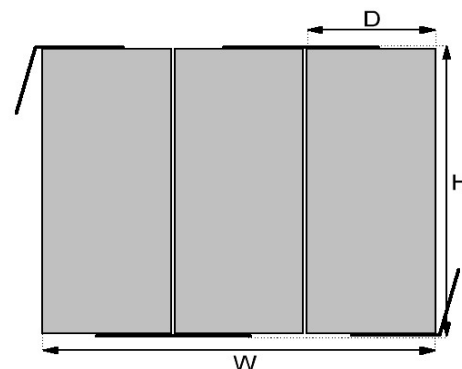
end 1.0 V	
0.2 C (400mA)*	min. 2000 mAh
1.0 C (2000mA)*	1840 mAh



Storage Temperature :	min -20 °C	max 40°C
Operating Temperature :	min -10 °C	max 45°C
Cycle life test :	IEC 61436	> 500 cycles

Dimensions

Height (H) max.	50.50 mm
Diameter (D) max.	15.00 mm
Width (W) max.	44.50 mm



Don't disassemble and don't mix with used or other battery types.
 Don't dispose to fire.
 Remove batteries when not in use for long periods.

* test condition: 20 ± 5°C

Performance Characteristics

Storage Temperature :	min -20 °C	max 40°C
Operating Temperature :	min -20 °C	max 50°C
Cycle life test :	IEC standard	up to 1000 cycles

Cycle life performance (IEC)

Cycle number	Charge	Rest	Discharge
1	0.1C / 16h	no	0.25C 2.33 h
2 to 48	0.25 C / 3.17h	no	0.25C / 2.33h
49	0.25C / 3.17h	no	0.25 C to 3.0 V
50	0.1C / 16h	1-4h	0.25 C to 3.0 V

The endurance test is considered complete when two such successive cycles give a discharge duration less than 3 h of any 50th cycle

Safety Performance

Drop test	Drop to an concrete floor from a height of 75 cm 4 times after fully charge and discharge	No machanical and electrical abnormality
Short-circuit	Short-circuit for 2 hours with 0,75qmm wire after fully charge and discharge	No explosion
Overcharge test 1	Charge 0.1C / 16h, charge 0.1C / 48h rest 1h, discharge 0.1C to 3.0V	Discharge time should be > 5h
Overcharge test 2	Charge 1.0C (-dV:5mV), rest 10 min, charge 1.0A (-dV:5mV) rest 10 min, charge 1.0C (-dV:5mV)	No leakage should occurr
Drop-overcharge	Discharge 1.0C to 3.0 V, discharge 0.2C to 3.0 V, drop to an concrete floor 3 times, charge 1.0C / 5h	No explosion
Drop short-circuit	Charge 0.1C / 16h, drop to an concrete floor 3 times, short-circuit for 2 hours with 0,75qmm wire	No explosion