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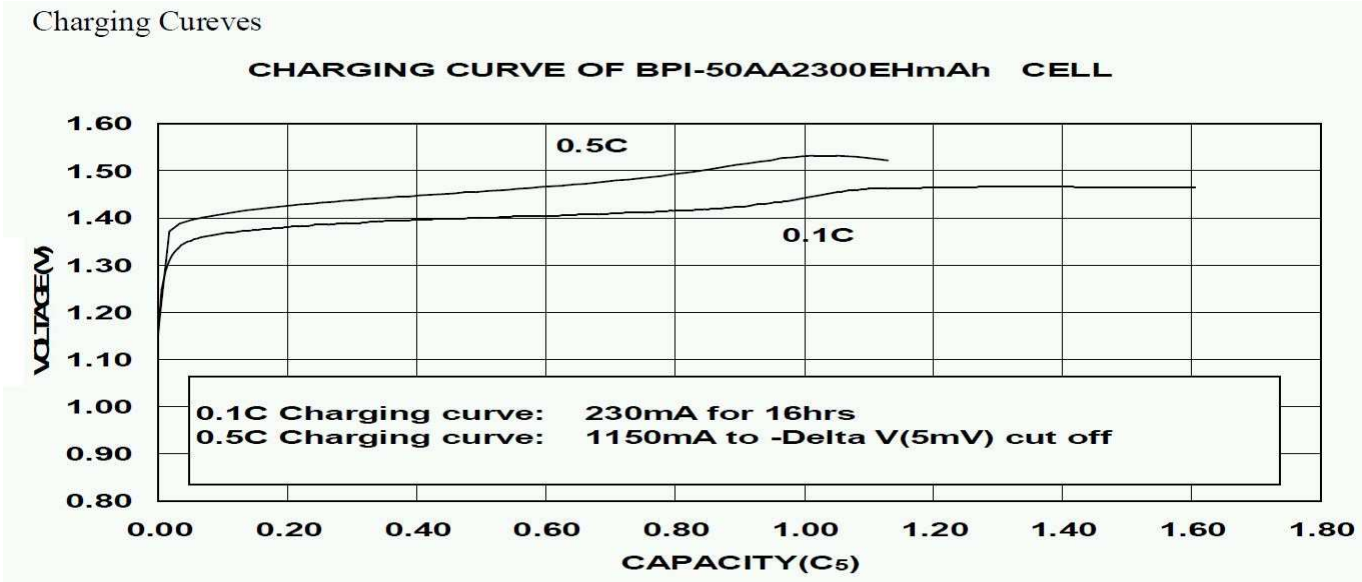
NIMH Size : AA2300 RTU	Technical Specification	2012

Nominal Voltage :	1.20 V
Open Circuit Voltage :	≥ 1.25 V after 16h/0.1C charge
Closed Circuit Voltage:	≥ 1.20 V
Nominal Capacity	min. 2300 mAh at 0.2C discharge 1.0V after 16h/0.1C charge*
Weight ± 5 g :	29 g
Int. Resistance :	<30 mΩ at 1 kHz
Self Discharge :	20% / year at 20℃ storage

Charge Characteristics

Standard Charge :	16 h x 0.1 C (230mA)
Fast Charge :	140 min. x 0.5 C (1150mA)

Charging Cureves



Test Conditions	
Ambient Conditions:	
Temperature:	+20℃ ±5℃
Humidity:	+65% ±20%

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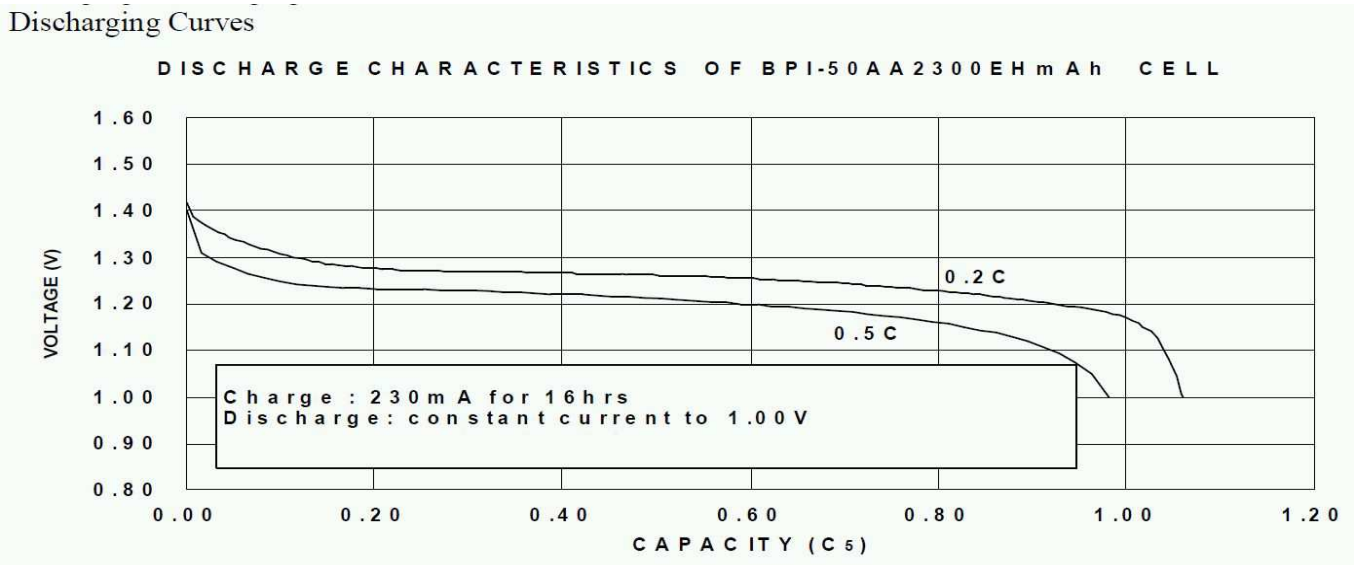
Discharge Characteristics

end 1.0 V

0.2 C (460mA)*	300 min
1.0 C (2300mA)*	57 min

Discharging Curves



Performance Characteristics

Storage Temperature :	min -20 ℃	max 55℃, ideally < 35℃
Operating Temperature :	min -10 ℃	max 50℃
Cycle life test :	IEC standard	up to 1000 cycles

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 1.0V	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 occure
Drop-overcharge	Discharge 1.0C to 1.0 V, discharge 0.2C to 1.0 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

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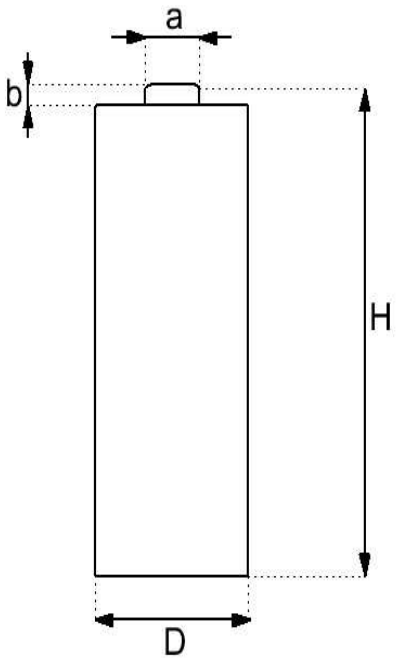
Dimensions



Height (H) ± 0.50mm	50.00 mm
Diameter (D) ± 0.40mm	14.10 mm
Nipple height (b)	1.20 mm
Nipple diameter (a)	5.50 mm

Don´t dissasemble and don´t mix with used or other battery types.
Don´t expose to fire.
Remove batteries when not in use for long periods.