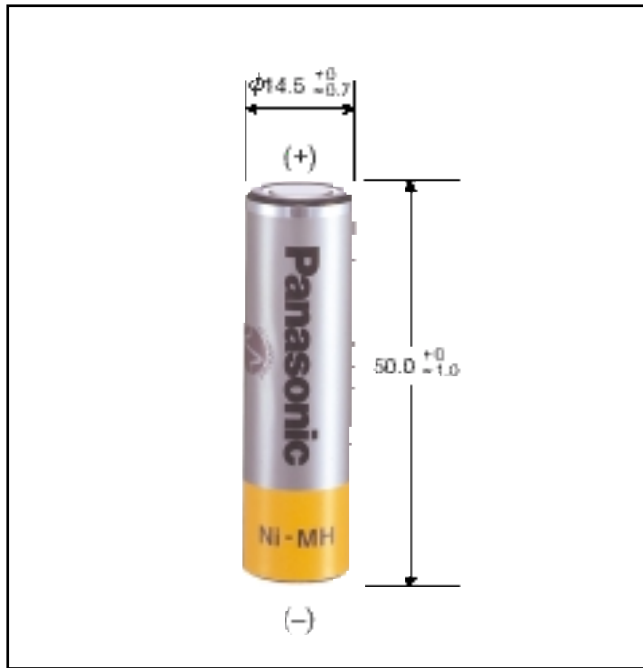


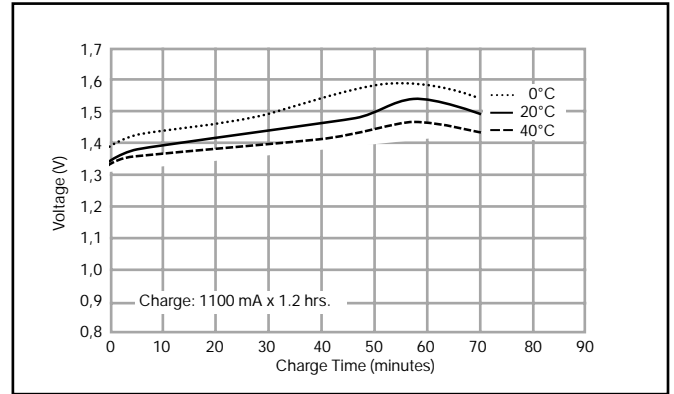
INDIVIDUAL DATA SHEETS

HHR110AAO/B Cylindrical AA size (HR15/51)

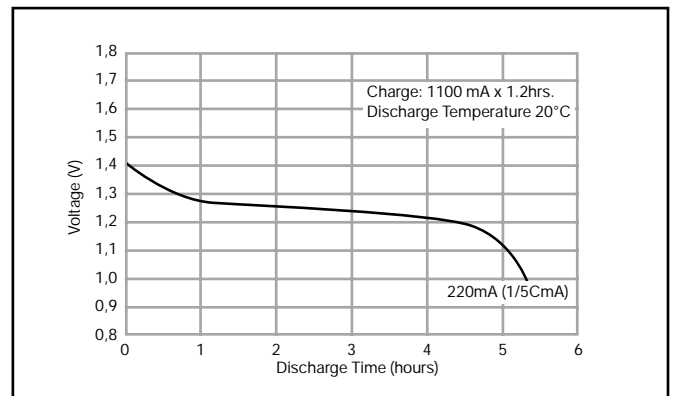
Dimensions (with Tube) (mm)



Typical Charge Characteristics



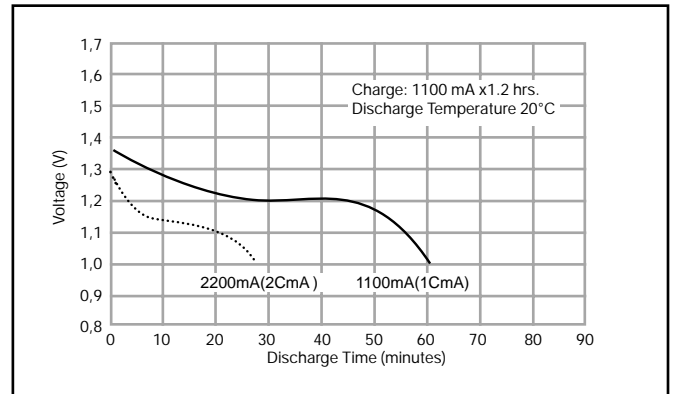
Typical Discharge Characteristics



Specifications

Diameter	14.5 +0 / -0.7mm
Height	50.0 +0 / -1.0mm
Approximate Weight	24g

Nominal Voltage		1.2V
Discharge Capacity*	Average**	1180mAh
	Rated (Min)	1100mAh
Approx. Internal impedance at 1000Hz at charged state		16mΩ
Charge	Standard	110mA x 15hrs.
	Rapid***	1100mA x 1.2hrs.
	Standard	0°C to 45°C
Ambient Temperature	Rapid	0°C to 40°C
	Discharge	-10°C to 65°C
Storage	<1 year	-20°C to 35°C
	<6 month	-20°C to 45°C
	<1 month	-25°C to 55°C



* After charging at 0.1CmA for 16 hours, discharging at 0.2CmA.

** For reference only.

*** Need specially designed control system

dT/dt cut-off; 1 to 2°C/min and -ΔV cut-off; -ΔV per cell=5 to 10mV and

T-control; T=65°C and Rapid charger timer; 2.4 h (at 0.25A) and

Trickle timer; within 2 h.

Battery performance and cycle life are strongly affected by how they are used.

In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.