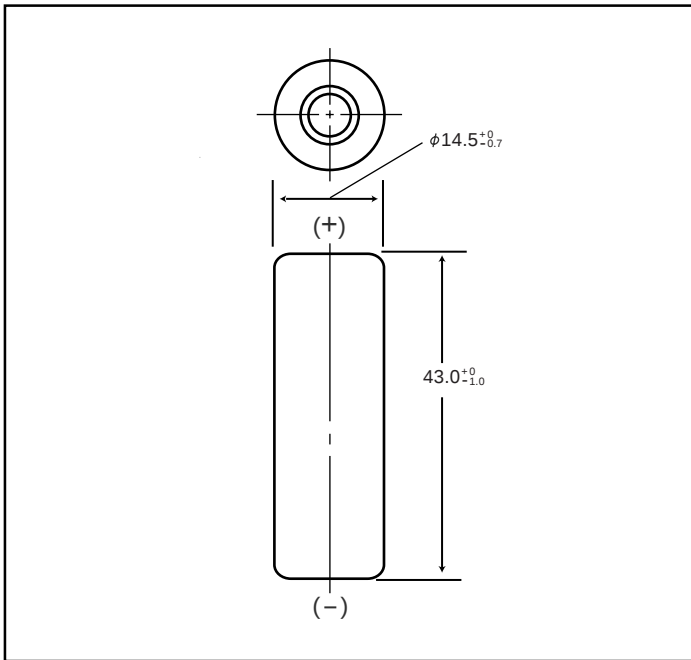


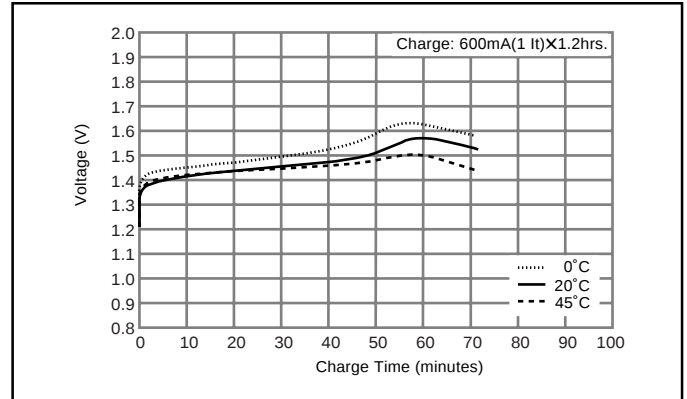
NICKEL METAL HYDRIDE BATTERIES: INDIVIDUAL DATA SHEET

HHR120AA Cylindrical 4/5AA size (HR 15/43)

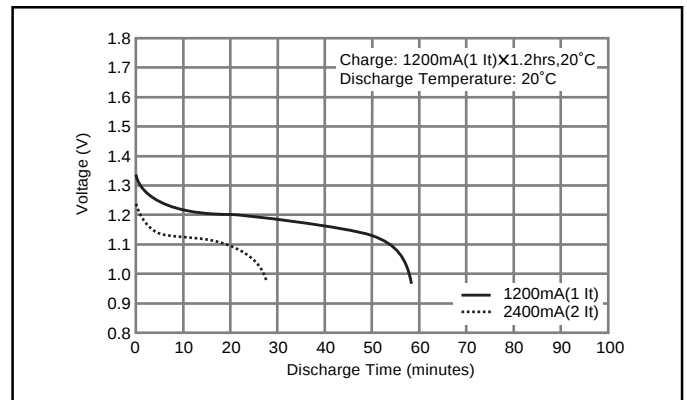
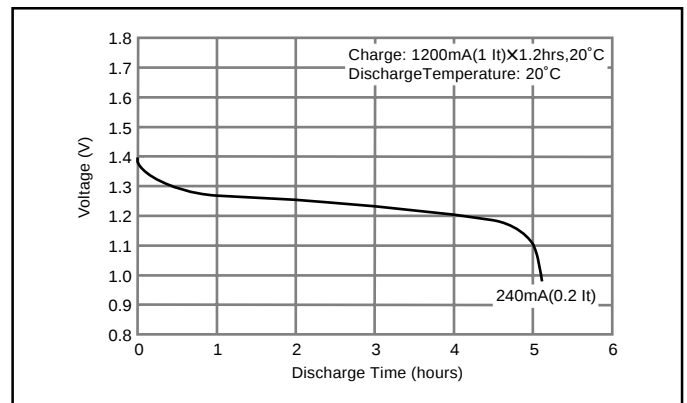
Dimensions (with Tube) (mm)



Typical Charge Characteristics



Typical Discharge Characteristics



Specifications

	mm	inch
Diameter	14.5+0/-0.7	0.57+0/-0.03
Height	43.0+0/-1.0	1.69+0/-0.04
Approximate Weight	Grams	Ounces
	23	0.81

Nominal Voltage		1.2V	
Discharge Capacity*	Average**	1220 mAh	
	Rated (Min.)	1150 mAh	
Approx. Internal impedance at 1000Hz at charged state.		19mΩ	
Charge	Standard	120mA (0.1It) x 16hrs.	
	Rapid	1200mA (1It) x 1.2 hrs.	
Ambient Temperature	Charge	Standard	°C
			°F
	Rapid		0°C to 45°C
			32°F to 113°F
	Discharge		0°C to 40°C
			32°F to 104°F
Storage	< 1 year		-10°C to 65°C
	< 3 months		14°F to 149°F
	< 1 month		-20°C to 35°C
	< 1 month		-4°F to 95°F

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

** For reference only.

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.

Note: [It] was previously expressed as [C]. [It] is an IEC standard expression for the amount of charge or discharge current and is expressed as:
It(A) = Cn (Ah)/1h.

- [It] is the reference test current in amperes
- [Cn] is the rated capacity of the cell or battery in Ampere-hours.
- n = the time base [hours] for which the rated capacity is declared