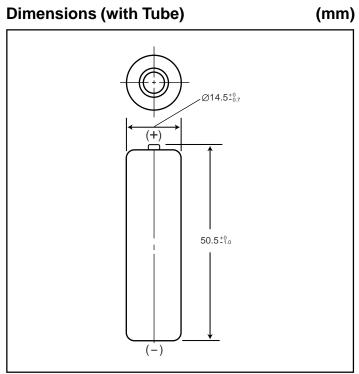
## NICKEL METAL HYDRIDE BATTERIES: INDIVIDUAL DATA SHEET

# HHR210AA/B Cylindrical AA size (HR 15/51)



#### **Specifications**

	mm	inch	
Diameter	14.5 +0/-0.7	0.57 +0/-0.3	
Height	50.5 +0/-1.0	1.99 +0/-0.5	
Approximate Weight	Grams	Ounces	
	29	1.02	

Nominal Voltage			1.2V	
Discharge Capacity*		Average**	2080mAh	
		Rated (Min.)	2000mAh	
Approx. internal Impedance at 1000Hz at charged state.			$25 \mathrm{m} \Omega$	
Charge		Standard	200mA (0.1lt) x 16 hrs.	
		Rapid	1200mA (1lt) x 2 hrs.	
Ambient Temperature	Charge	Standard	°C	°F
			0°C to 45°C	32°F to 113°F
		Rapid	0°C to 40°C	32°F to 113°F
Disch		narge	-10°C to 65°C	14°F to 149°F
Ar Tem	Storage	< 1 year	-20°C to 35°C	-4°F to 95°F
		< 3 months	-20°C to 45°C	-4°F to 113°F
		< 1 month	-20°C to 55°C	-4°F to 131°F

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

\*\* For reference only.

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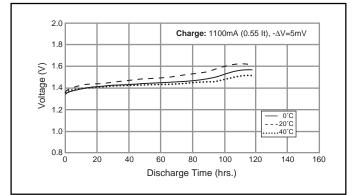
Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

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

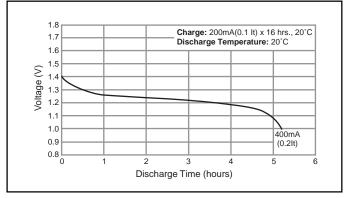
[It] is the reference test current in ampres

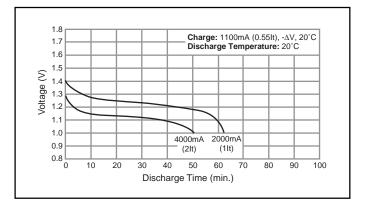
\* [Cn] is the rated capacity of the cell or battery in Ampere-hours. n = the time base [hours] for which the rated capacity is declared

#### **Typical Charge Characteristics**



### **Typical Discharge Characteristics**





#### NICKEL METAL HYDRIDE HANDBOOK

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact Panasonic for the latest information.