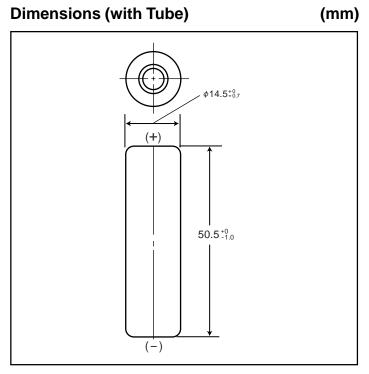
NICKEL METAL HYDRIDE BATTERIES: INDIVIDUAL DATA SHEET

HHR150AA Cylindrical AA size (HR 15/51)



Specifications

			mm	inch	
Diameter		14.5+0/-0.7	0.57+0/-0.03		
Height			50.0+0/-1.0	1.97+0/-0.06	
Approximate Weight		Grams	Ounces		
		26	0.92		
Nominal Voltage			1.:	1.2V	
Discharge Capacity*		Average**	1580	1580 mAh	
		Rated (Min.) 1500	1500 mAh	
Approx. Internal impedance at 1000Hz at charged state.			20	20mΩ	
Charge		Standard	150mA (0.1	150mA (0.1lt) x 16hrs.	
		Rapid	1500mA (1	lt) x 1.2 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 104°F	
	Discharge		-10°C to 65°C	14°F to 149°F	
	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.

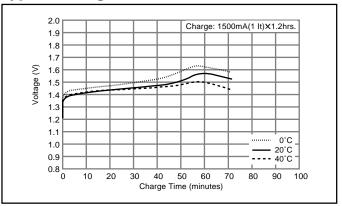
** For reference only.

nasonic

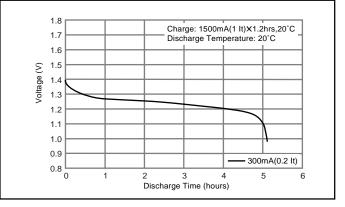
Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

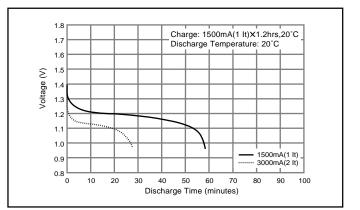
- Note: [It] was previously expressed as [C]. [It] is an IEC standard expression for the amount of charge or discharge current and is expressed as: It(A) = Cn (Ah)/1h.
 - [It] is the reference test current in ampres
 - [Cn] is the rated capacity of the cell or battery in Ampere-hours. n = the time base [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.