# HHR380A Cylindrical L-A size (HR 17/67)



#### Specifications

	mm	inch
Diameter	17.0+0/-0.7	0.67+0/-0.03
Height	67.0+0/-1.5	2.64+0/-0.06
Approximate	Grams	Ounces
Weight	53	1.87

Nominal Voltage		1.2V		
Discharge Capacity*		Average**	3800 mAh	
		Rated (Min.)	3700 mAh	
Approx. Internal impedance at 1000Hz at charged state.		25mΩ		
Charge		Standard	370mA (0.1lt) x 16hrs.	
		Rapid***	2000mA dT/dt	
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.

anasonic

\*\*\* For rapid charge: use dT/dt charge termination method. Refer to the Nickel Metal Hydride "Charge Methods" section for further details. 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

#### AUGUST 2005

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.