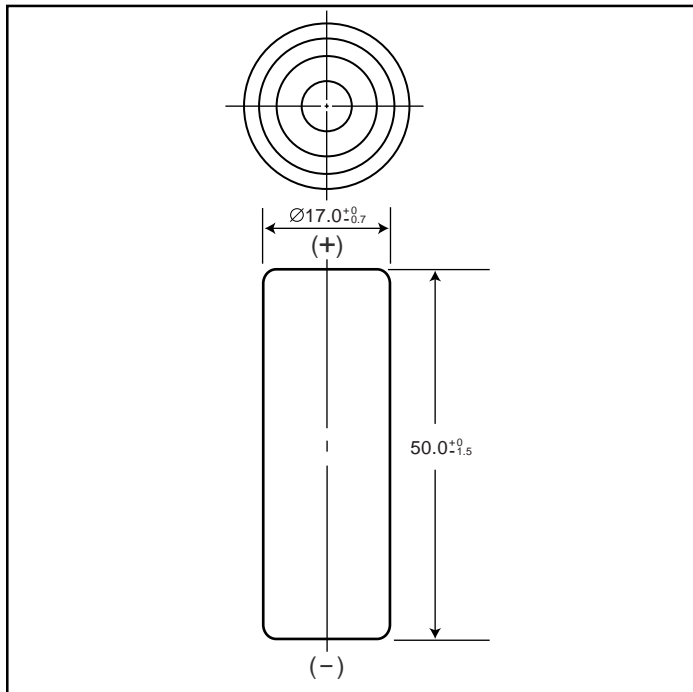


# NICKEL METAL HYDRIDE BATTERIES: INDIVIDUAL DATA SHEET

## HHR210AH Cylindrical A size (HR 17/50)

### Dimensions (with Tube) (mm)



### Specifications

	mm	inch
Diameter	17.0+0/-0.7	0.67+0/-0.03
Height	50.0+0/-1.5	1.97+0/-0.06
Approximate Weight	Grams	Ounces
	38	1.34

Nominal Voltage		1.2V	
Discharge Capacity <sup>1</sup>	Average <sup>2</sup>	2050mAh	
	Rated (Min.)	1900mAh	
Approx. internal Impedance at 1000Hz at charged state.		20mΩ	
Charge	Standard	210mA (0.1It) x 16 hrs.	
	Rapid	-	
Ambient Temperature	Charge	Standard	°C
		Standard	-10°C to 60°C
	Rapid	-	-
	Discharge	-10°C to 60°C	14°F to 140°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
	< 1 week	-20°C to 60°C	-4°F to 140°F

<sup>1</sup> After charging at 0.1It for 16 hours, discharging at 0.2It.

<sup>2</sup> For reference only.

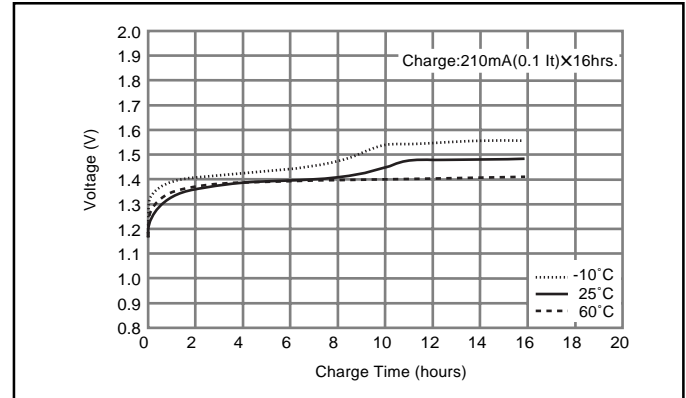
Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

**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:

$$It(A) = C_n (Ah)/1h.$$

- [It] is the reference test current in amperes
- [C<sub>n</sub>] 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

