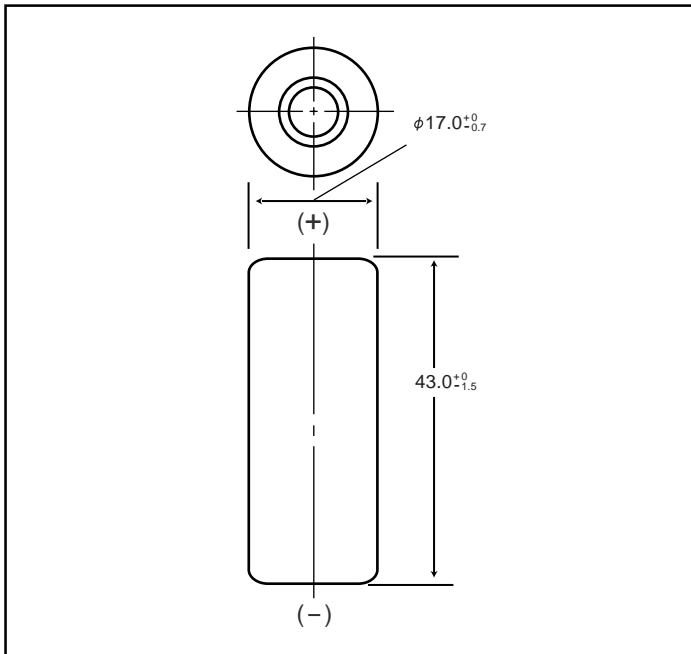


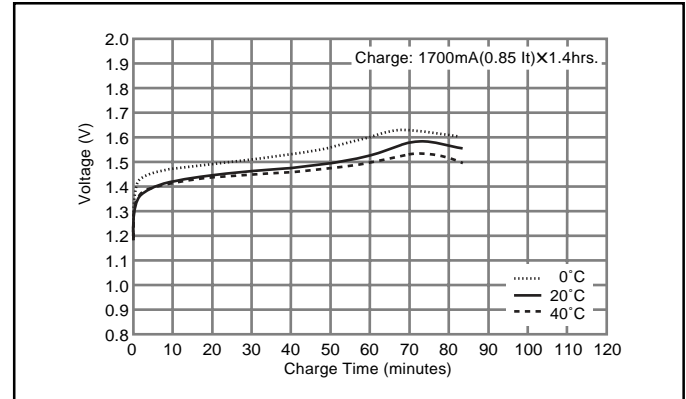
# NICKEL METAL HYDRIDE BATTERIES: INDIVIDUAL DATA SHEET

## HHR200A Cylindrical 4/5A size (HR 17/43)

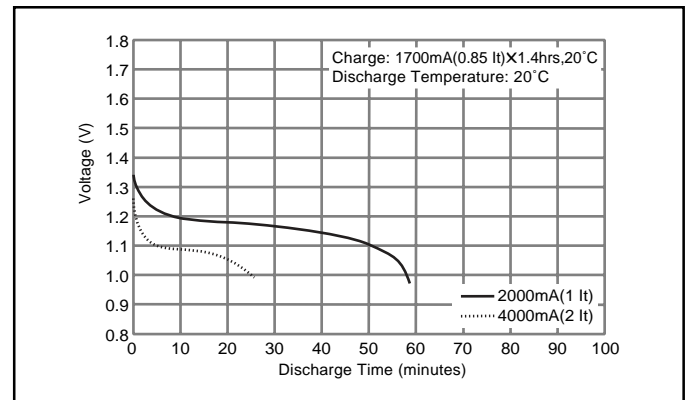
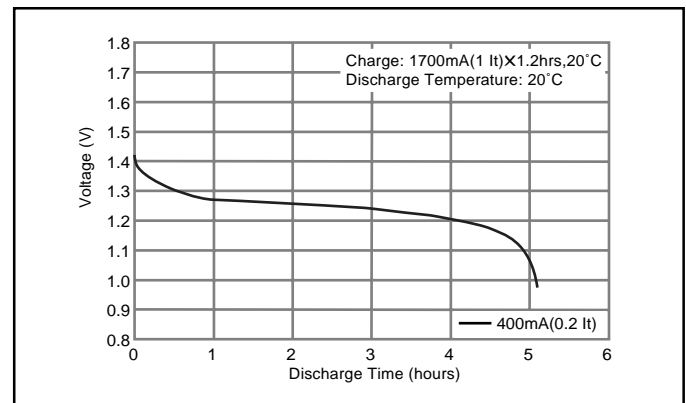
### Dimensions (with Tube) (mm)



### Typical Charge Characteristics



### Typical Discharge Characteristics



### Specifications

|                    | mm          | inch         |
|--------------------|-------------|--------------|
| Diameter           | 17.0+0/-0.7 | 0.67+0/-0.03 |
| Height             | 43.0+0/-1.5 | 1.69+0/-0.06 |
| Approximate Weight | Grams       | Ounces       |
|                    | 32          | 1.13         |

|  |               |                         |               |               |
|--|---------------|-------------------------|---------------|---------------|
| Nominal Voltage  |               | 1.2V                    |               |               |
| Discharge Capacity*                                    | Average**     | 2040 mAh                |               |               |
|  | Rated (Min.)  | 2000 mAh                |               |               |
| Approx. Internal impedance at 1000Hz at charged state. |               | 20mΩ                    |               |               |
| Charge   | Standard      | 200mA (0.1It) x 16hrs.  |               |               |
|  | Rapid         | 2000mA (1It) 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 |
| < 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 0.1It 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:  
 $It(A) = C_n (Ah)/1h.$

- [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