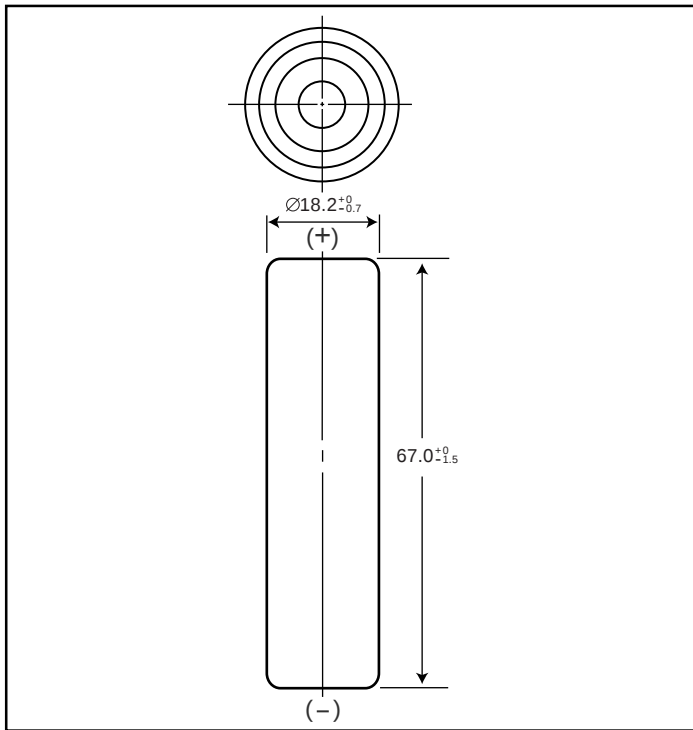


# NICKEL METAL HYDRIDE BATTERIES: INDIVIDUAL DATA SHEET

## HHR370AH Cylindrical L-Fat A size (HR 18/67)

### Dimensions (with Tube) (mm)



### Specifications

|                    | mm          | inch         |
|--------------------|-------------|--------------|
| Diameter           | 18.2+0/-0.7 | 0.72+0/-0.03 |
| Height             | 67.0+0/-1.5 | 2.64+0/-0.06 |
| Approximate Weight | Grams       | Ounces       |
|                    | 60          | 2.12         |

|                                                        |         |                      |                                |               |
|--------------------------------------------------------|---------|----------------------|--------------------------------|---------------|
| Nominal Voltage                                        |         |                      | 1.2V                           |               |
| Discharge Capacity <sup>1</sup>                        |         | Average <sup>2</sup> | 3700 mAh                       |               |
|                                                        |         | Rated (Min.)         | 3500 mAh                       |               |
| Approx. Internal impedance at 1000Hz at charged state. |         |                      | 20mΩ                           |               |
| Charge                                                 |         | Standard             | 370mA x 16hrs.                 |               |
|                                                        |         | Rapid <sup>3</sup>   | 1750mA x 2.4 hrs. <sup>4</sup> |               |
|                                                        |         | Low Rate             | 185mA x 32 hrs.                |               |
|                                                        |         |                      | 123mA x 48 hrs.                |               |
| Ambient Temperature                                    | Charge  | Standard             | °C                             | °F            |
|                                                        |         |                      | -10°C to 60°C                  | 14°F to 140°F |
|                                                        |         | Rapid                | -10°C to 45°C                  | 14°F to 113°F |
|                                                        |         |                      | Discharge                      |               |
|                                                        | Storage | < 1 year             | -20°C to 35°C                  | -4°F to 95°F  |
|                                                        |         | < 6 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 65°C                  | -4°F to 149°F |

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

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

<sup>3</sup> Need specially designed control system

#### Control System:

dT/dt cut-off; 1 to 2°C/min

-ΔV cut-off; -ΔV per cell = 5 to 10 mV

T-control; T=65°C

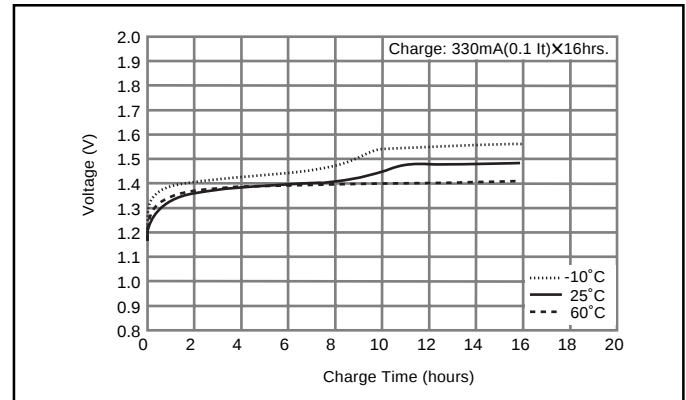
Rapid charger timer; 2.4h (at 1.25a)

Trickle timer; within 2h

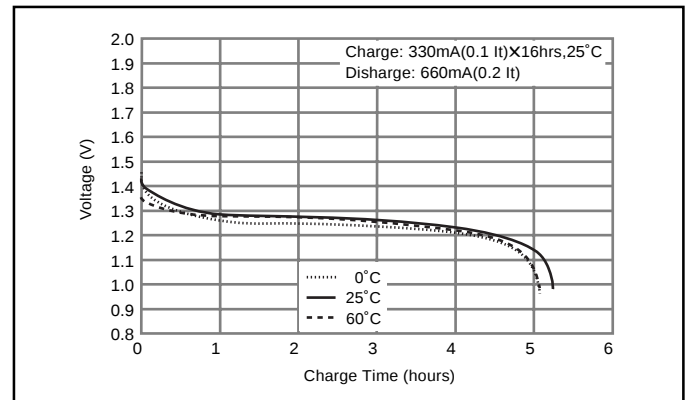
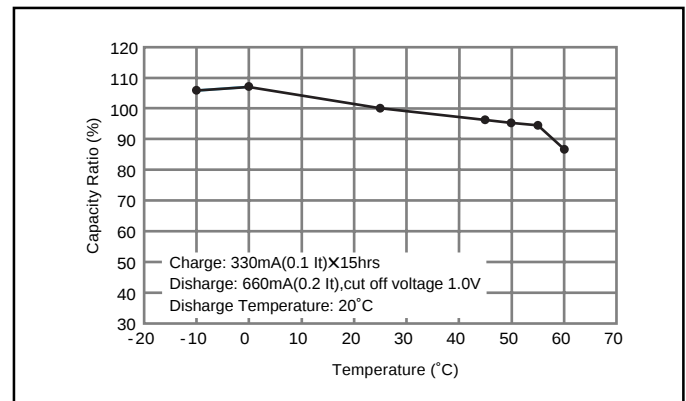
<sup>4</sup> With control system

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.

### Typical Charge Characteristics



### Typical Discharge Characteristics



**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 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

# Mouser Electronics

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[HHR-370AHA05](#)