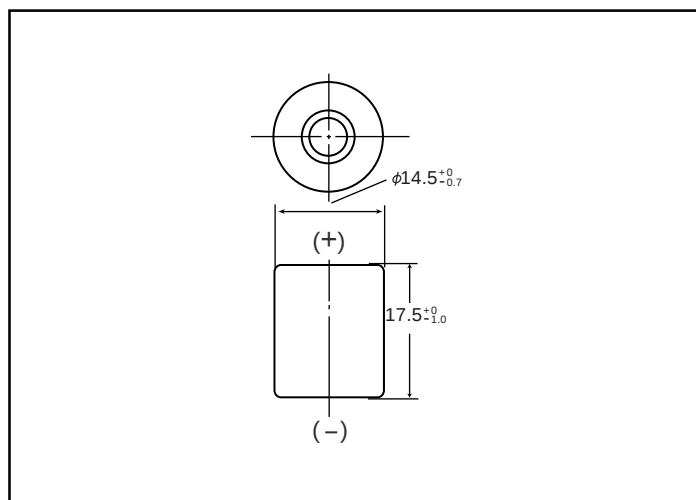


# NICKEL CADMIUM BATTERIES: INDIVIDUAL DATA SHEET

## P-11AAH 1/3AA size (KR15/18) Type: H

Dimensions (with tube) (mm)



### Specifications

|                    | mm           | inch          |
|--------------------|--------------|---------------|
| Diameter           | 14.5 +0/-0.7 | 0.57 +0/-0.03 |
| Height             | 17.5 +0/-1.0 | 0.69 +0/-0.04 |
| Approximate Weight | Grams        | Ounces        |
|                    | 6.5g         | 0.23          |

|                                                       |           |              |               |                                |
|-------------------------------------------------------|-----------|--------------|---------------|--------------------------------|
| Nominal Voltage                                       |           |              | 1.2V          |                                |
| Discharge Capacity*                                   |           | Average**    |               | 120mAh                         |
|                                                       |           | Rated (Min.) |               | 110mAh                         |
| Approx. Internal impedance at 1000Hz at charged state |           |              | 80mΩ          |                                |
| Charge                                                |           | Standard     |               | 11mA (0.1It) x 16 hrs.         |
|                                                       |           | Trickle      | Max Current   | 5.5mA (0.05It) x 30h and over  |
|                                                       |           |              | Min Current   | 3.7mA (0.033It) x 45h and over |
| Ambient Temperature                                   | Charge    |              | °C            | °F                             |
|                                                       |           |              | 0°C to 50°C   | 32°F to 122°F                  |
|                                                       | Discharge |              | -20°C to 65°C | -4°F to 149°F                  |
|                                                       | Storage   | < 2 years    | -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                  |

\* 0.2It discharge capacity after charging at 0.1It for 16 hours.

\*\* For reference only.

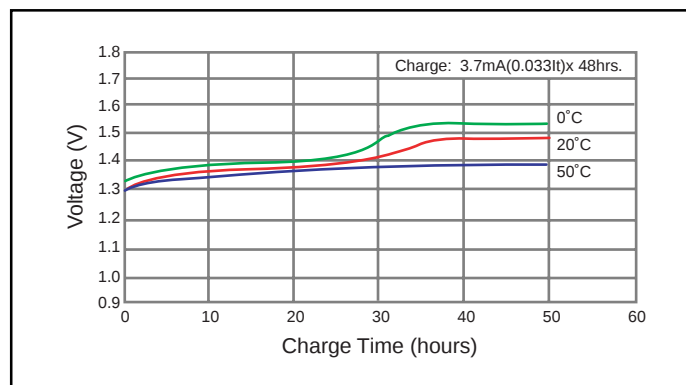
Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

**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:

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

- [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

### Typical Charge Characteristics



### Typical Discharge Characteristics

