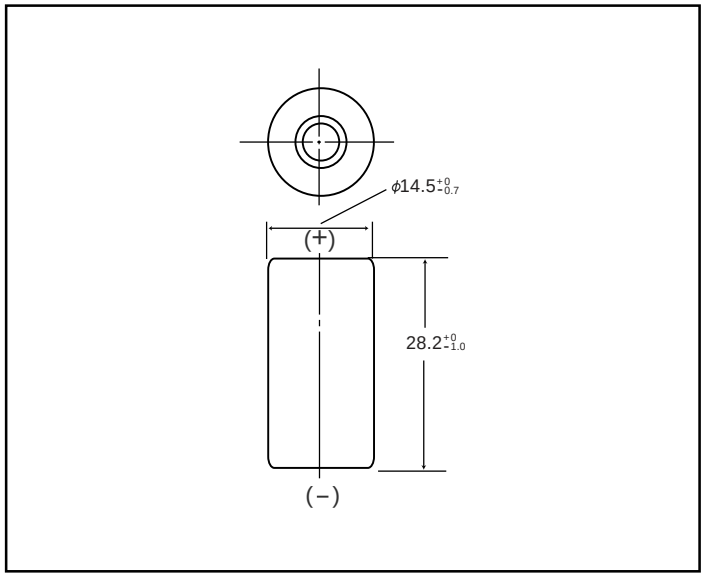
# P-30AAR 2/3AA size Type: R

## Dimensions (with tube) (mm)




## Specifications

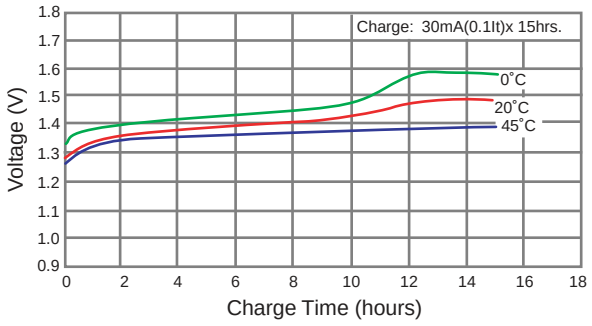
| | mm | inch |
|---|---|---|
| Diameter | 14.5 +0/-0.7 | 0.57 +0/-0.03 |
| Height | 28.2 +0/-1.0 | 1.11 +0/-0.04 |
| Approximate Weight | Grams | Ounces |
| | 12g | 0.42 |

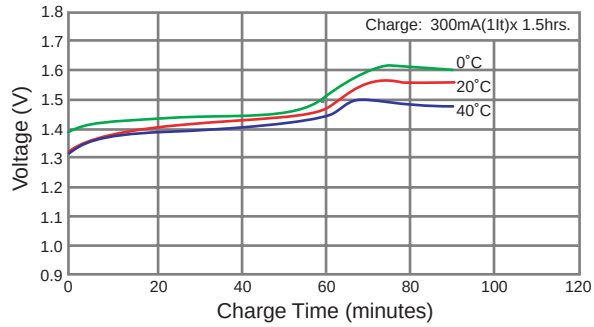
| | | | | |
|---|---|---|---|---|
| Nominal Voltage | | | 1.2V | |
| Discharge Capacity* | | Average** | 330mAh | |
| | | Rated (Min.) | 300mAh | |
| Approx. Internal impedance at 1000Hz at charged state | | | 20mΩ | |
| Charge | | Standard | 30mA (0.1It) x 16 hrs. | |
| | | Rapid*** | 300mA (1It) x 1.5 hrs. | |
| Ambient Temperature | Charge | Standard | ˚C | ˚F |
| | | | 0˚C to 45˚C | 32˚F to 113˚F |
| | | Rapid | 10˚C to 40˚C | 50˚F to 104˚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 |

* 0.2It discharge capacity after charging at 0.1It for 16 hours.
** For reference only.
*** Refer to “Charge Methods for Ni-Cd Batteries”
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