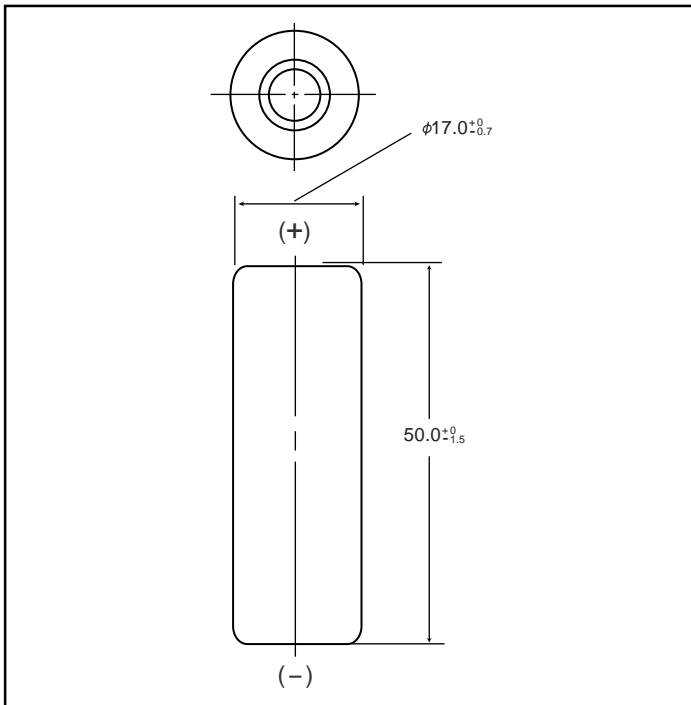


# NICKEL CADMIUM BATTERIES: INDIVIDUAL DATA SHEET

## P-140AS A size (KR17/50) Type: S

Dimensions (with tube) (mm)



### Specifications

	mm	inch
<b>Diameter</b>	17.0 +0/-0.7	0.67 +0/-0.03
<b>Height</b>	50.0 +0/-1.5	1.97 +0/-0.06
<b>Approximate Weight</b>	<b>Grams</b>	<b>Ounces</b>
	32g	1.13

<b>Nominal Voltage</b>		1.2V		
<b>Discharge Capacity*</b>	<b>Average**</b>	1530mAh		
	<b>Rated (Min.)</b>	1400mAh		
<b>Approx. Internal impedance at 1000Hz at charged state</b>		14mΩ		
<b>Charge</b>	<b>Standard</b>	140mA (0.1It) x 16 hrs.		
	<b>Rapid***</b>	1400mA (1It) x 1.5 hrs.		
<b>Ambient Temperature</b>	<b>Charge</b>	<b>Standard</b>	°C	°F
			0°C to 45°C	32°F to 113°F
	<b>Discharge</b>	<b>Rapid</b>	10°C to 40°C	50°F to 104°F
			-20°C to 65°C	-4°F to 149°F
<b>Storage</b>	<b>&lt; 2 years</b>	-20°C to 35°C	-4°F to 95°F	
		<b>&lt; 6 months</b>	-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.

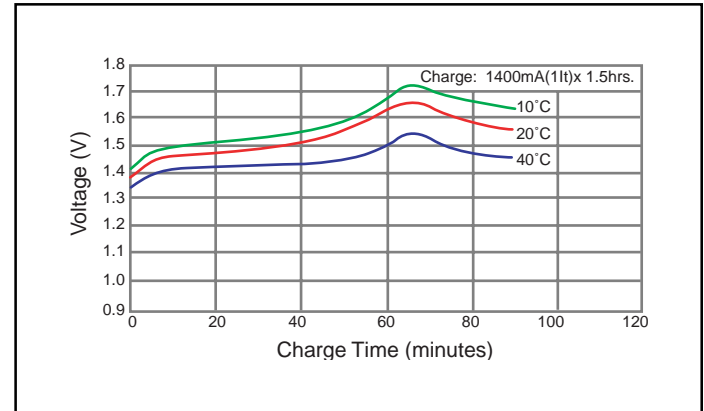
\*\*\* Refer to "Charge Methods for Ni-Cd Batteries"

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 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

