imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



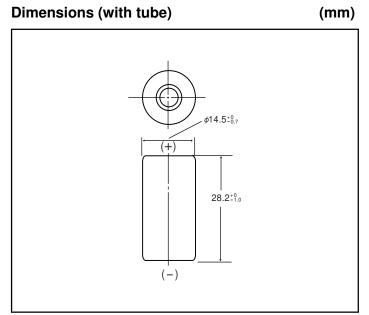
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



NICKEL CADMIUM BATTERIES: INDIVIDUAL DATA SHEET

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



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	Grams	Ounces	
Weight	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 Rapid***		30mA (0.1lt) x 16 hrs.		
		Rapid***	300mA (1lt) x 1.5 hrs.	
Ambient Temperature	Charge	Standard	°C	۴
			0°C to 45°C	32°F to 113°F
		Rapid	10°C to 40°C	50°F to 104°F
d m be	Discharge		-20°C to 65°C	-4°F to 149°F
A	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

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

** For reference only.

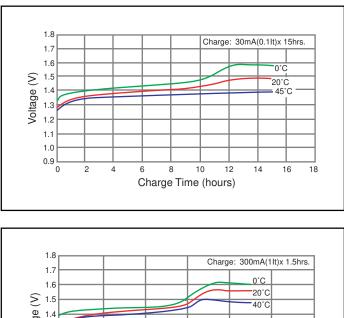
nasonic

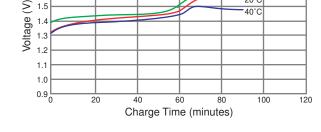
*** Refer to "Charge Methods for Ni-Cd Batteries"

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.

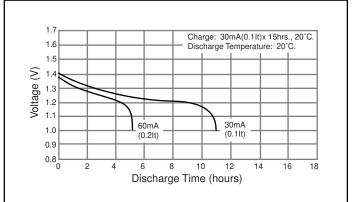
- Note: [It] was previously expressed as [C]. [It] is an IEC standard expression for the amount of charge or discharge current and is expressed as: It(A) = Cn (Ah)/1h.
 - [It] is the reference test current in ampres
 - [Cn] is the rated capacity of the cell or battery in Ampere-hours. ${\sf n}$ = the time base [hours] for which the rated capacity is declared

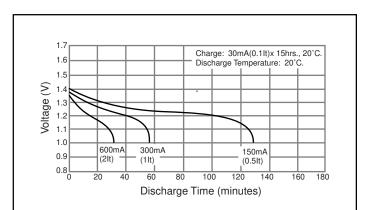
Typical Charge Characteristics





Typical Discharge Characteristics





NICKEL CADMIUM HANDBOOK

AUGUST 2003

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact Panasonic for the latest information.