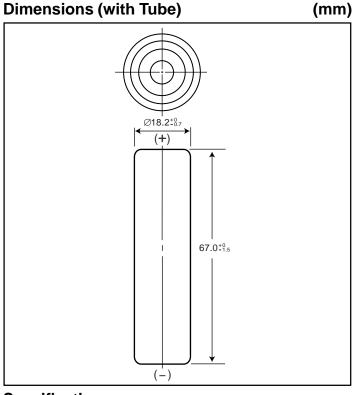
HHR330APH Cylindrical L-Fat A size (HR 18/67)



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		Grams	Ounces	
Weight		60	2.12	
Nominal Voltage			1.2V	
Disc	harge	Average ²	3300 mAh	
Capacity ¹		Rated (Min.)	3200 mAh	
Approx. Internal impedance			5.5mΩ	
at 1000Hz at charged state.				
Charge		Standard	330mA x 16hrs.	
		Rapid ³	1650mA x 2.4 hrs.4	
		Low Rate	165mA x 32 hrs.	
			110mA x 48 hrs.	
Ambient Temperature	Charge	Standard	O°	°F
			-10°C to 60°C	14°F to 140°F
		Rapid	-10°C to 45°C	14°F to 113°F
	Discharge		-10°C to 60°C	14°F to 140°F
	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

¹ After charging at 0.1lt for 16 hours, discharging at 0.2lt.

² For reference only.

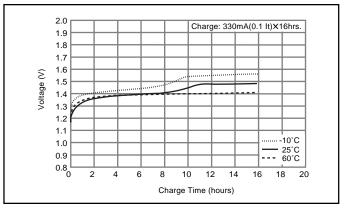
³ Need specially designed control system

Control System: dT/dt cut-off; 1 to 2°C/min $-\Delta V$ cut-off; $-\Delta V$ per cell = 5 to 10 mV T-control; T=65°C Rapid charger timer; 2.4h (at 1.25a) Trickle timer; within 2h

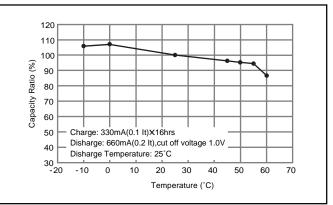
⁴ With control system

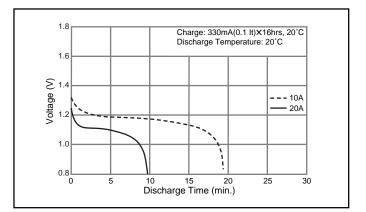
Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

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 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

Panasonic NICKEL METAL HYDRIDE HANDBOOK AUGUST 2005 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.

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