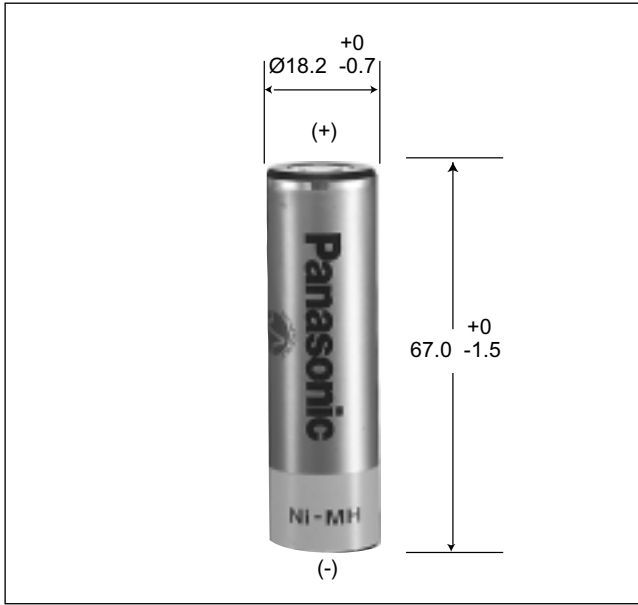


# HHR-330APH/FT Cylindrical LFat/A size for back-up use

## Dimensions (with tube) (mm)



Diameter	18.2 + 0 / -0.7 mm
Height	67.0 + 0 / -1.5 mm
Approximate Weight	60g

## Specifications

Nominal Voltage		1.2V	
Discharge capacity *	Average **	3,300mAh	
	Rated (min.)	3,200mAh	
Approx. Internal impedance at 1000Hz at charged state.		5.5m Ω	
Charge	Standard	330mA X 16hrs.	
	Rapid ***	1,650mA X 2.4hrs.	
	Low rate	165mA X 32hrs. 165mA X 32hrs.	
Ambient Temperature	Charge	Standard	-10°C to 60°C
		Rapid	
		Low rate	
Discharge		-10°C to 60°C	
Storage	<1 year	-20°C to 35°C	
	<6 months	-20°C to 45°C	
	<1 month	-20°C to 55°C	
	<1 week	-20°C to 65°C	

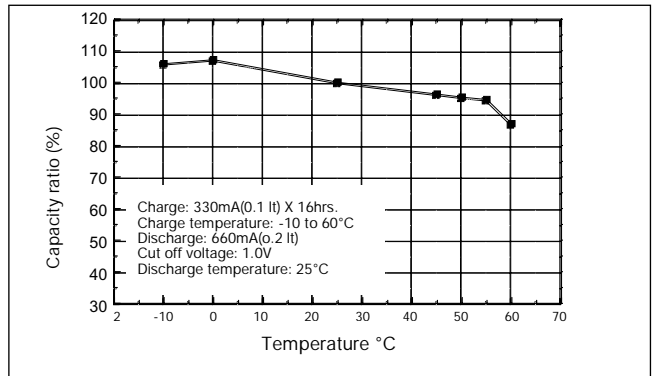
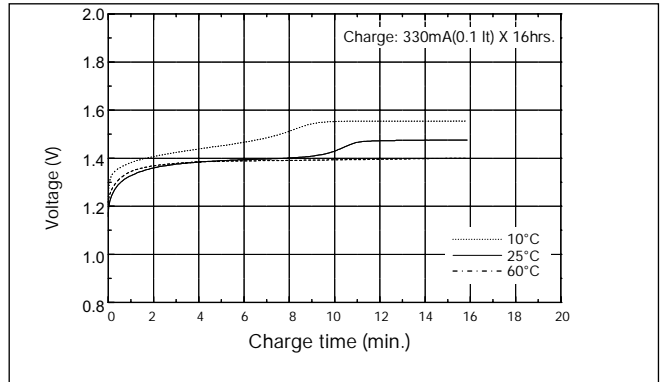
\* After charging at 0.1It for 16 hours, discharging at 0.2It.

\*\* For reference only.

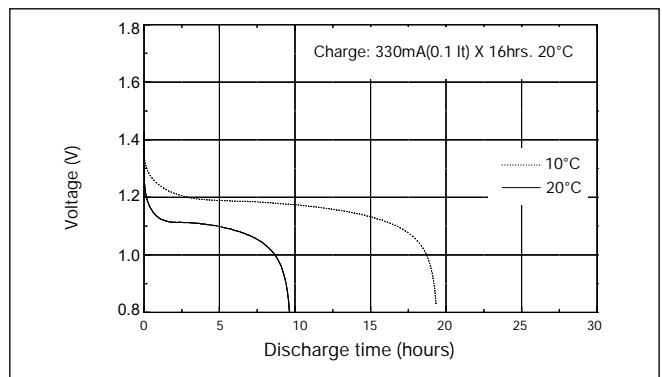
\*\*\* Need specially designed control system.  
Please contact Panasonic for details.

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 design.

## Typical Charge Characteristics



## Typical Discharge Characteristics



\*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.