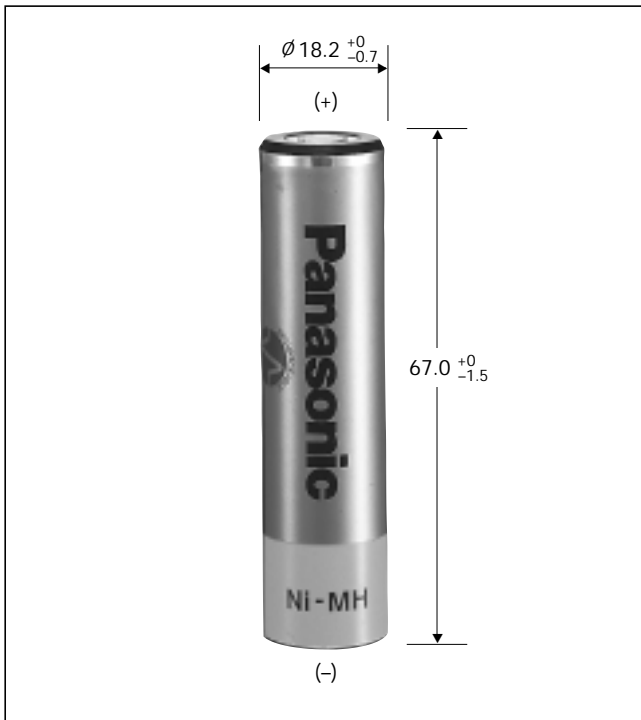
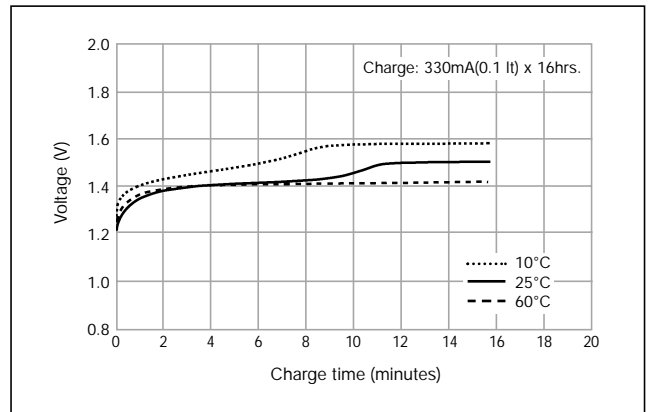


# HHR-330APH/FT Cylindrical LFat/A size for back-up use

## Dimensions (with tube) (mm)



## Typical charge characteristics

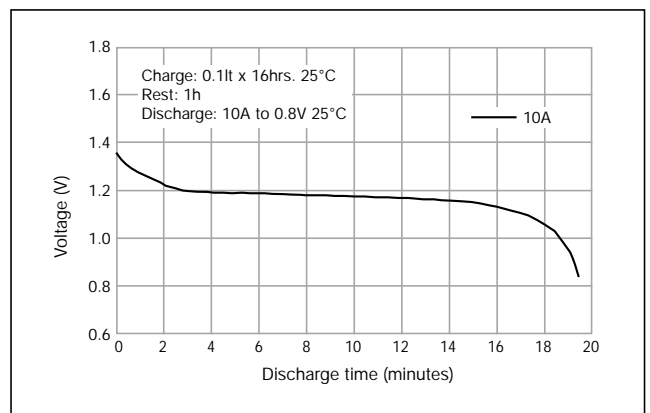
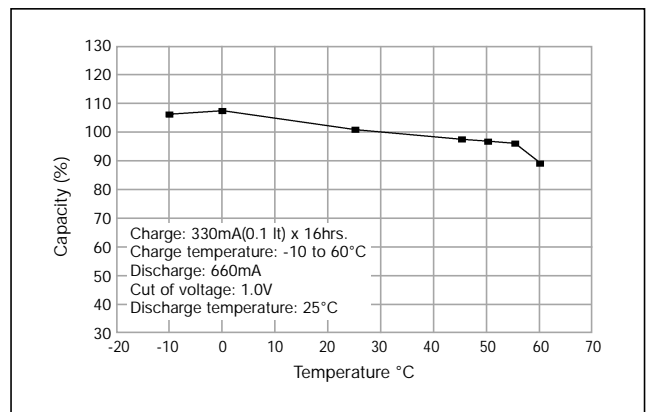


## Specifications

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

Nominal Voltage		1.2V	
Discharge Capacity <sup>*1</sup>	Average <sup>*2</sup>	3,300mAh	
	Rated (min)	3,200mAh	
Approx. Internal impedance at 1000Hz at charged state		5.5mΩ	
Charge	Standard	330mA x 16hrs.	
	Rapid <sup>*3</sup>	1,650mA x 2.4hrs.	
	Low	165mA x 32hrs. 100mA x 48hrs.	
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	

## Typical discharge characteristics



<sup>\*1</sup> After charging at 0.1It for 16 hours, discharging at 0.2It.  
<sup>\*2</sup> For reference only.  
<sup>\*3</sup> 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.

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