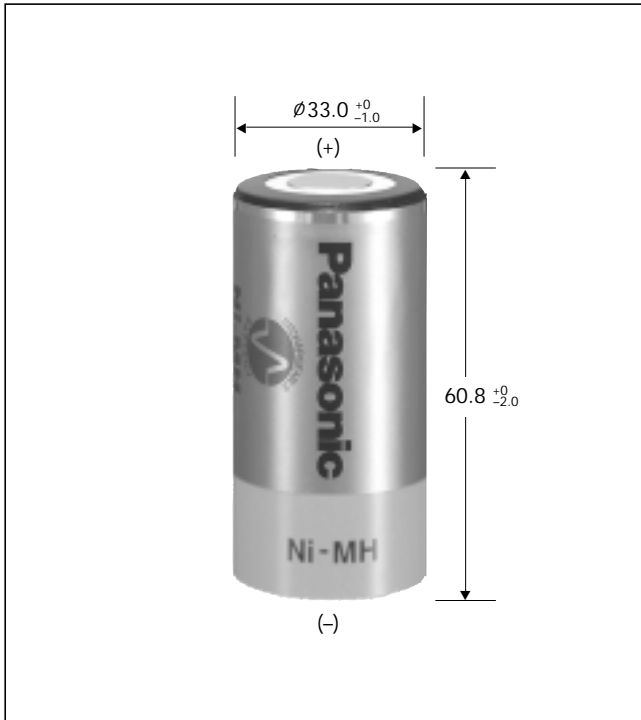
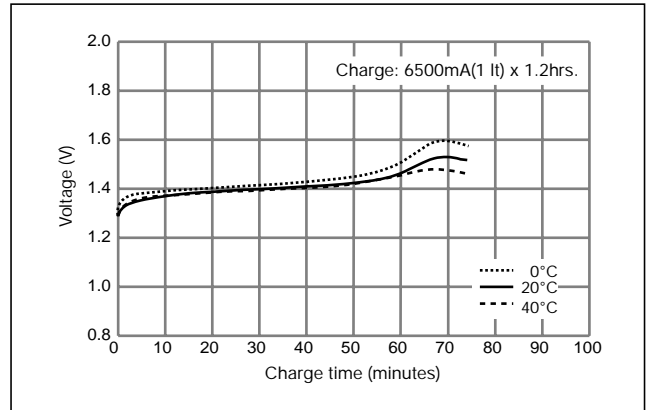


HHR-650D/FT Cylindrical D size (HR33/62)

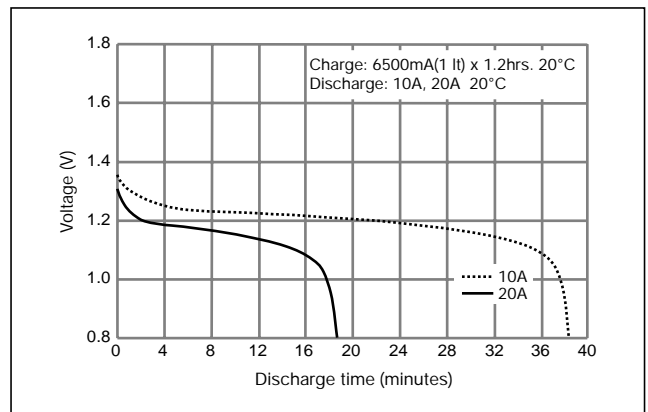
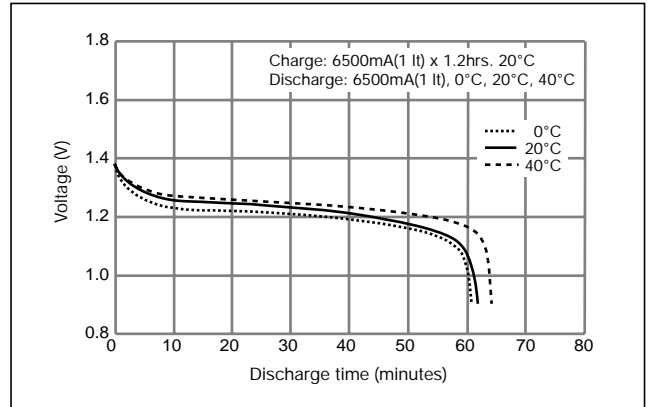
Dimensions (with tube) (mm)



Typical charge characteristics



Typical discharge characteristics



Specifications

Diameter	33.0+0 / -1.0mm
Height	60.8+0 / -2.0mm
Approximate Weight	170g

Nominal Voltage		1.2V
Discharge Capacity ^{*1}	Average ^{*2}	6,800mAh
	Rated (min)	6,500mAh
Approx. Internal impedance at 1000Hz at charged state		2mΩ
Charge	Standard	650mA x 16hrs.
	Rapid ^{*3}	6,500mA x 1.2hrs.
Ambient Temperature	Charge	Standard: 0°C to 45°C Rapid: 0°C to 40°C
	Discharge	-10°C to 65°C
Storage	<1 year	-20°C to 35°C
	<3 months	-20°C to 45°C
	<1 month	-20°C to 55°C

^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} 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.