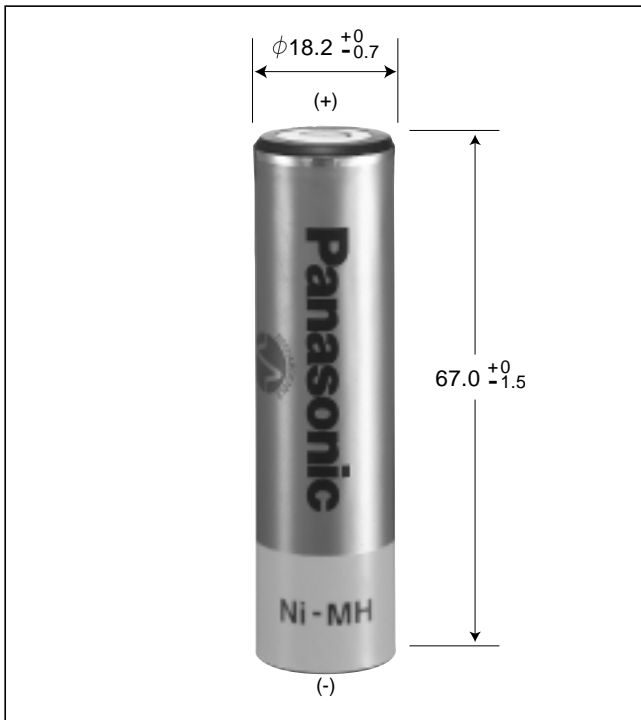
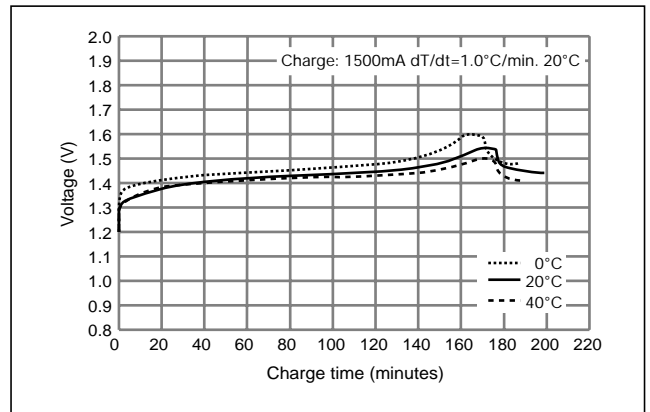


HHR-450A/FT Cylindrical LFat/A size

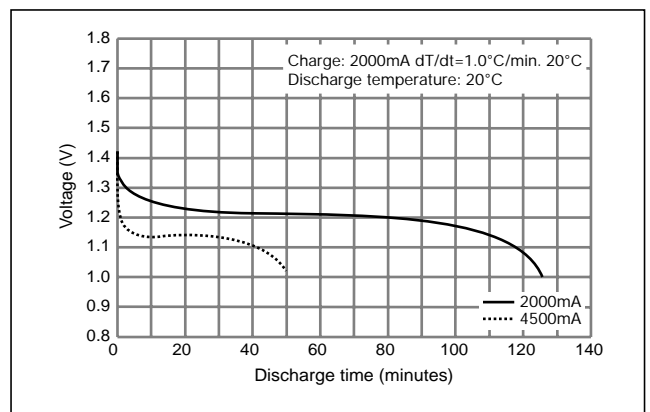
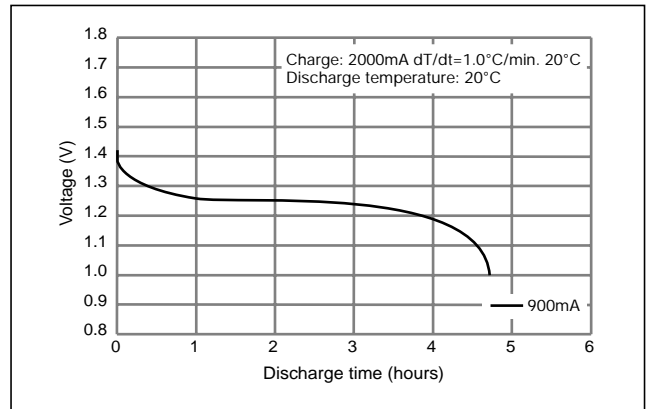
Dimensions (with tube) (mm)



Typical charge characteristics



Typical discharge characteristics



Specifications

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

| | | | |
|---|-----------------------|----------------|---------------|
| Nominal Voltage | | 1.2V | |
| Discharge Capacity ^{*1} | Average ^{*2} | 4,500mAh | |
| | Rated (min) | 4,200mAh | |
| Approx. Internal impedance at 1000Hz at charged state | | 25mΩ | |
| Charge | Standard | 420mA x 16hrs. | |
| | Rapid ^{*3} | 2,000mA dT/dt | |
| 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.