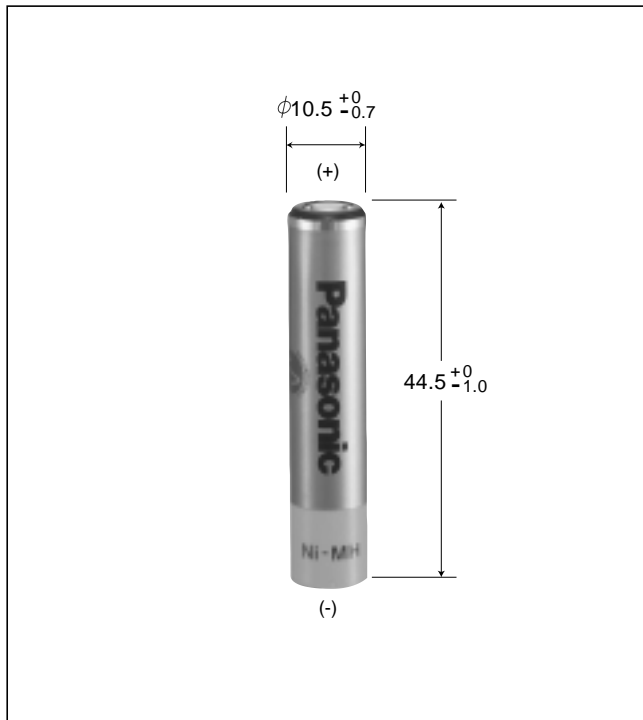
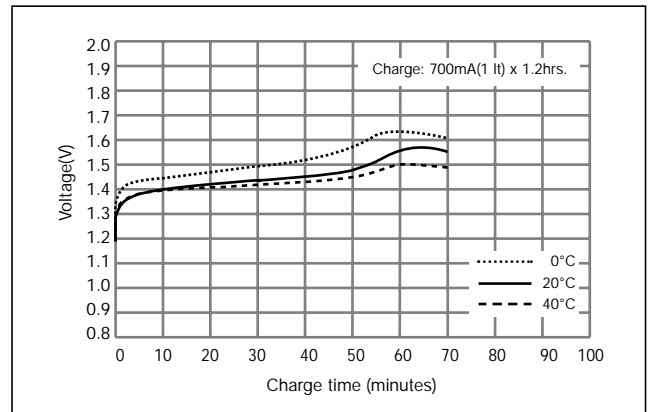


HHR-70AAA/FT Cylindrical AAA size (HR11/45)

Dimensions (with tube) (mm)



Typical charge characteristics

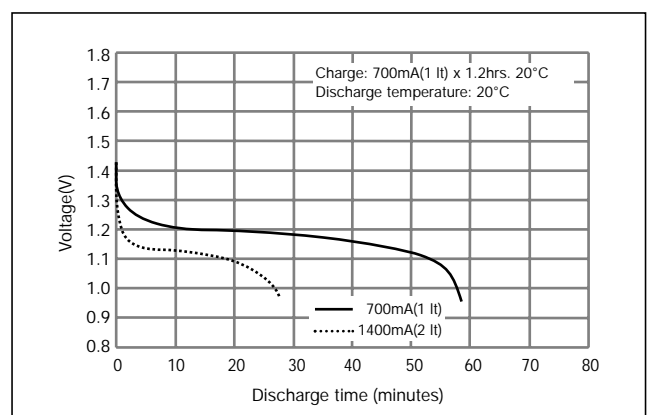
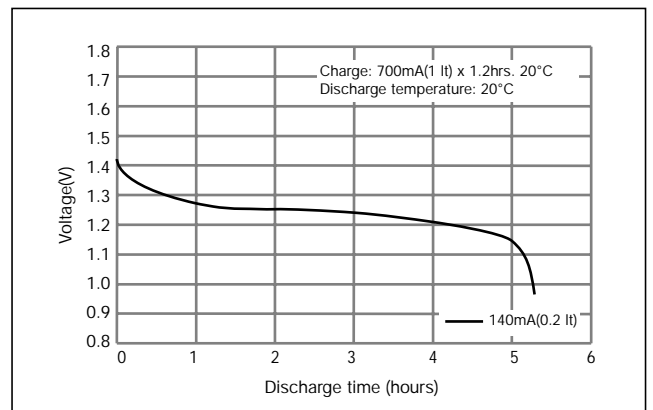


Specifications

Diameter	10.5+0 / -0.7mm
Height	44.5+0 / -1.0mm
Approximate Weight	12g

Nominal Voltage		1.2V
Discharge Capacity ^{*1}	Average ^{*2}	730mAh
	Rated (min)	700mAh
Approx. Internal impedance at 1000Hz at charged state		30mΩ
Charge	Standard	70mA x 16hrs.
	Rapid ^{*3}	700mA 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
	<6 months	-20°C to 45°C
	<1 month	-20°C to 55°C

Typical discharge characteristics



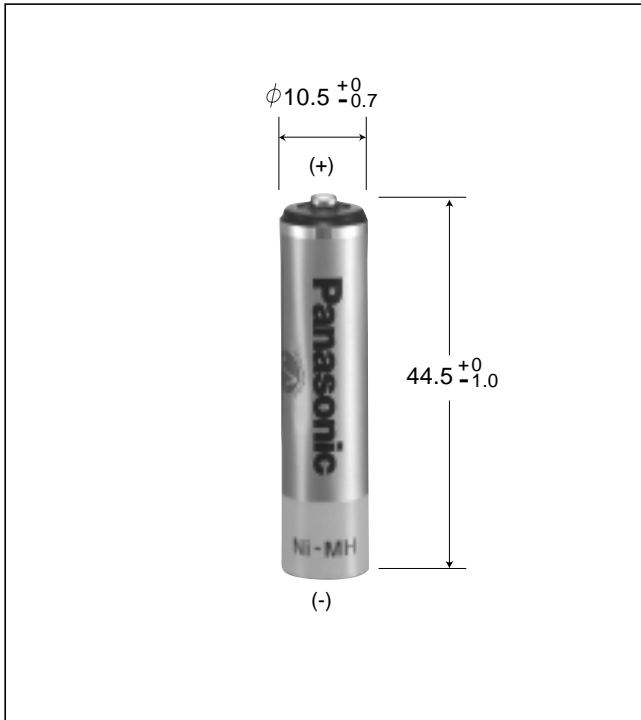
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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.

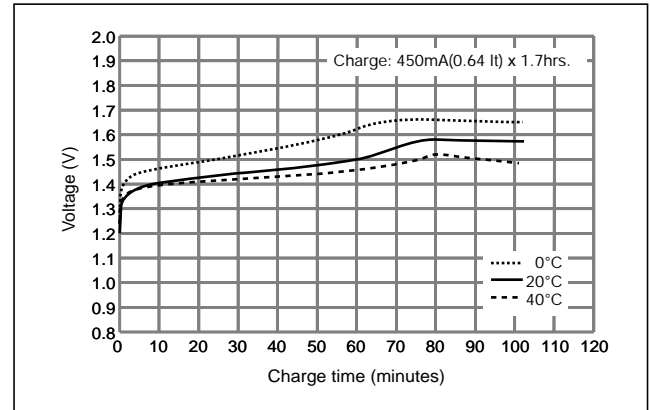
*The data in this document are for descriptive purposes only and are not intended to make any guarantee or warranty.

HHR-75AAA/HT Cylindrical AAA size (HR11/45)

Dimensions (with tube) (mm)



Typical charge characteristics

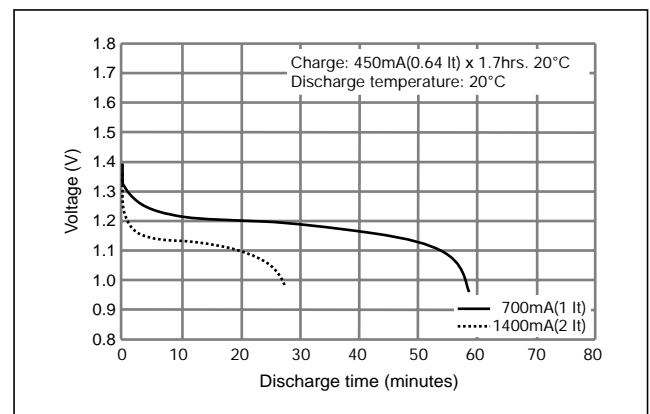
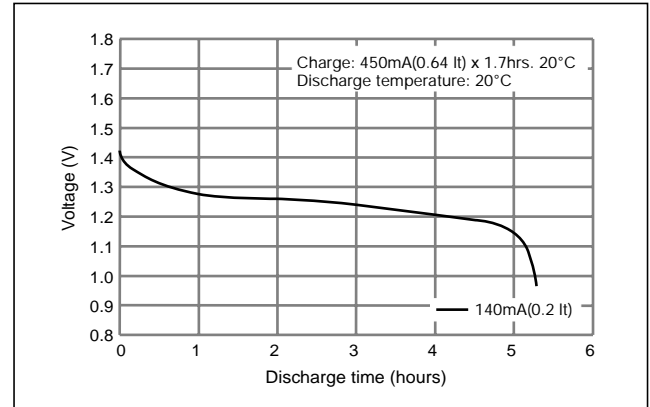


Specifications

Diameter	10.5+0 / -0.7mm
Height	44.5+0 / -1.0mm
Approximate Weight	12g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	730mAh	
	Rated (min)	700mAh	
Approx. Internal impedance at 1000Hz at charged state		35mΩ	
Charge	Standard	70mA x 16hrs.	
	Rapid ^{*3}	450mA x 1.7hrs.	
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	
	<6 months	-20°C to 45°C	
	<1 month	-20°C to 55°C	

Typical discharge characteristics



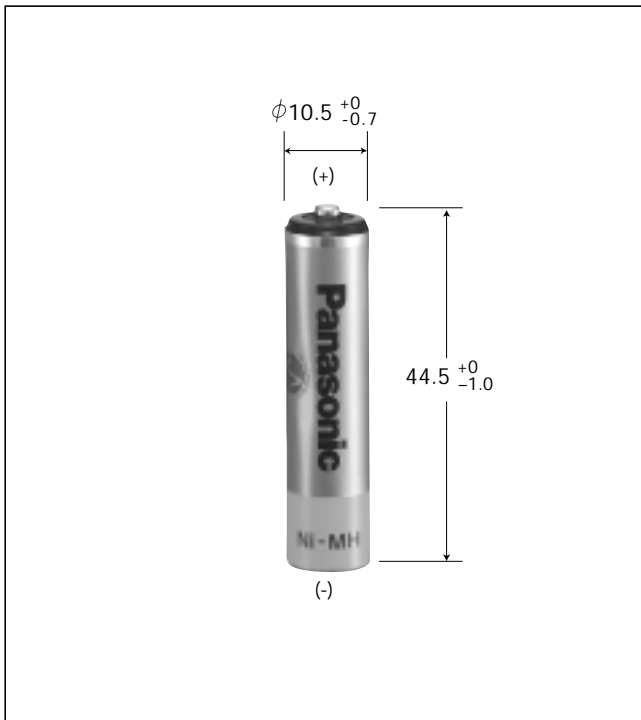
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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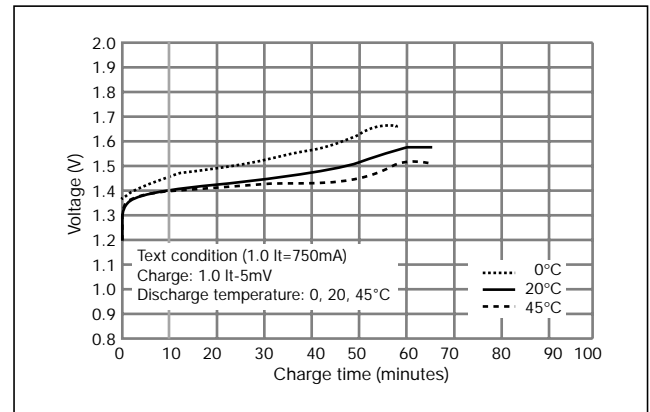
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-80AAA/HT Cylindrical AAA size (HR11/45)

Dimensions (with tube) (mm)



Typical charge characteristics

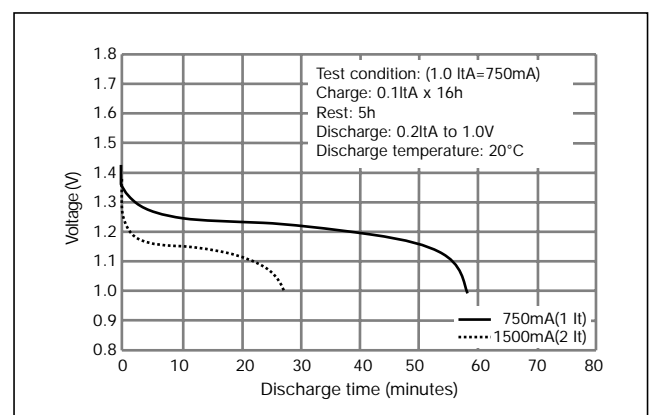
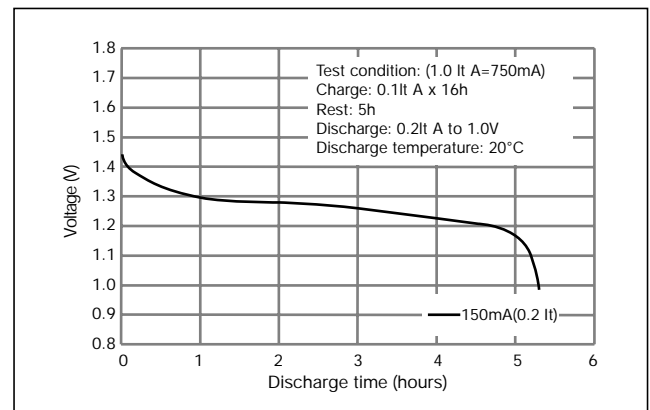


Specifications

Diameter	10.5+0 / -0.7mm
Height	44.5+0 / -1.0mm
Approximate Weight	13g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	780mAh	
	Rated (min)	750mAh	
Approx. Internal impedance at 1000Hz at charged state		45mΩ	
Charge	Standard	75mA x 16hrs.	
	Rapid ^{*3}	750mA 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	
	<6 months	-20°C to 45°C	
	<1 month	-20°C to 55°C	

Typical discharge characteristics



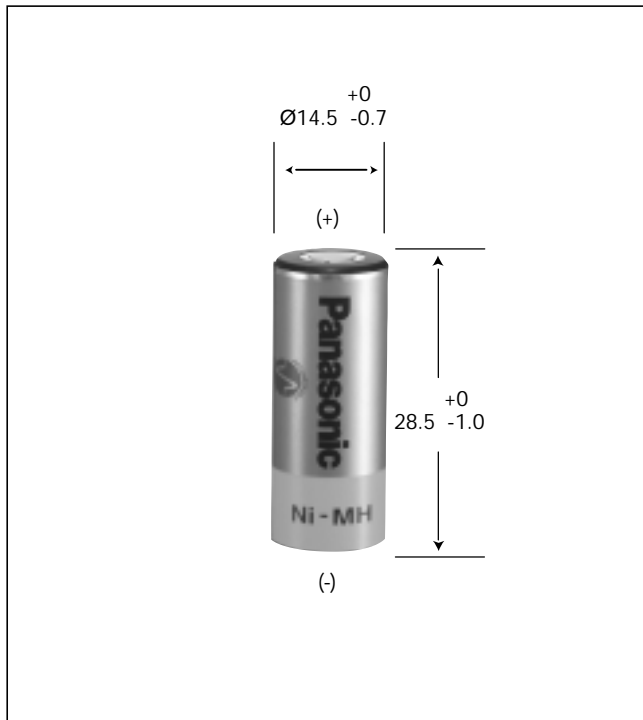
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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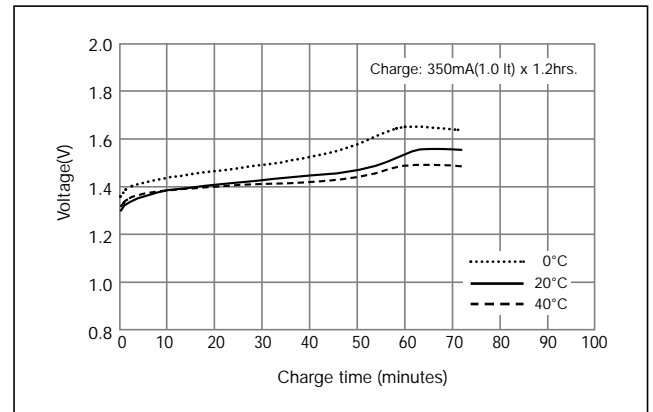
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-35AA/FT Cylindrical 2/3AA size

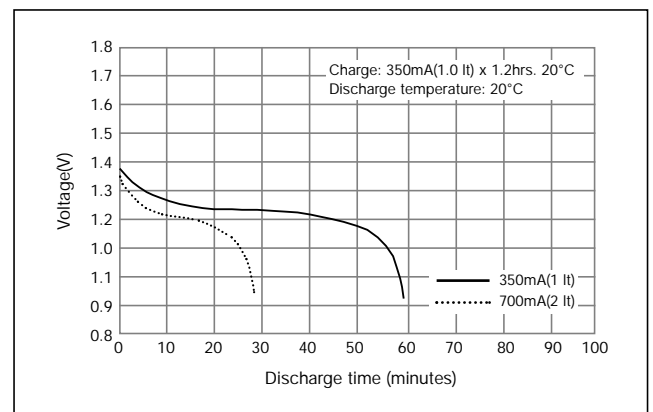
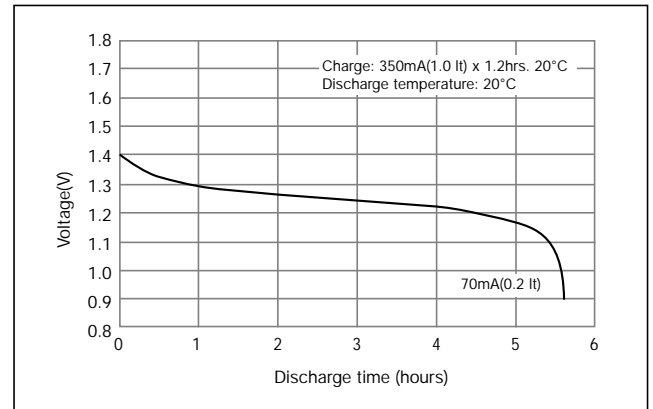
Dimensions (with tube) (mm)



Typical charge characteristics



Typical discharge characteristics



Specifications

Diameter	14.5+0 / -0.7mm
Height	28.5+0 / -1.0mm
Approximate Weight	10.5g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	390mAh	
	Rated (min)	350mAh	
Approx. Internal impedance at 1000Hz at charged state		30mΩ	
Charge	Standard	35mA x 16hrs.	
	Rapid ^{*3}	350mA 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	
	<6 months	-20°C to 45°C	
	<1 month	-20°C to 55°C	

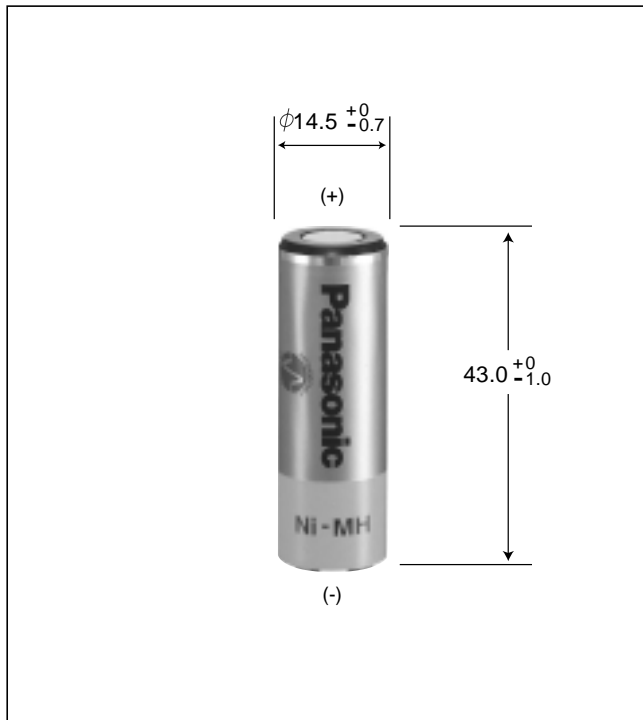
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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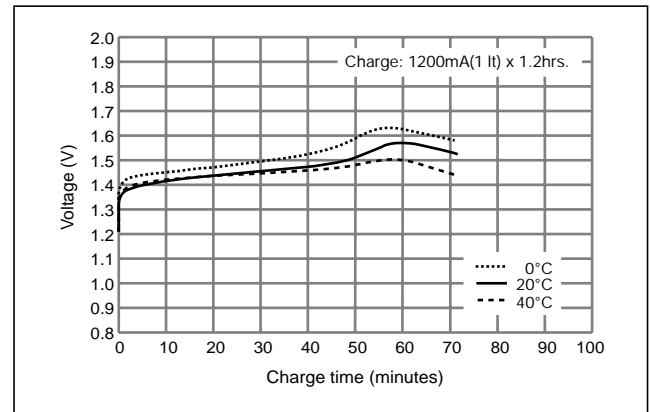
*The data in this document are for descriptive purposes only and are not intended to make any guarantee or warranty.

HHR-120AA/FT Cylindrical 4/5AA size (HR15/43)

Dimensions (with tube) (mm)



Typical charge characteristics

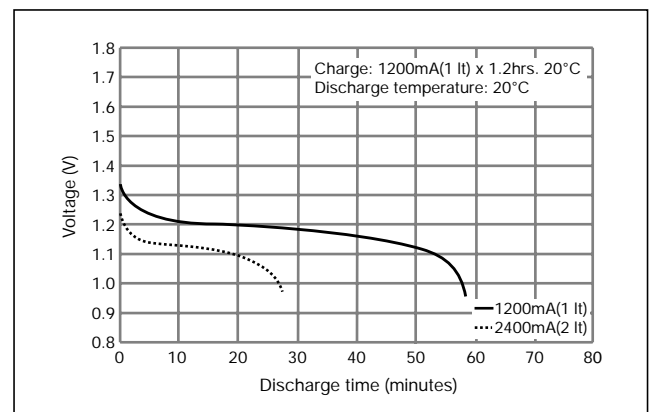
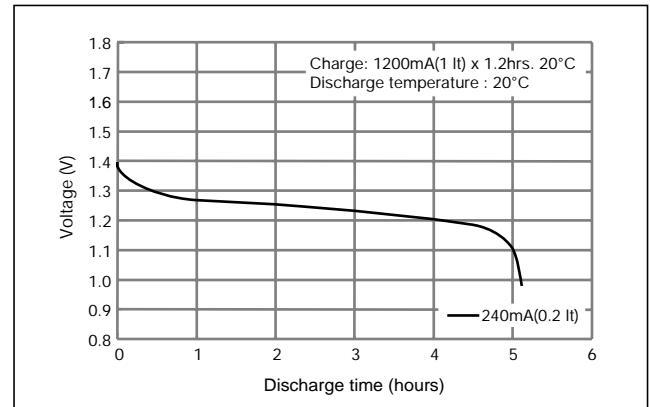


Specifications

Diameter	14.5+0 / -0.7mm
Height	43.0+0 / -1.0mm
Approximate Weight	23g

Nominal Voltage		1.2V
Discharge Capacity ^{*1}	Average ^{*2}	1,220mAh
	Rated (min)	1,150mAh
Approx. Internal impedance at 1000Hz at charged state		19mΩ
Charge	Standard	120mA x 16hrs.
	Rapid ^{*3}	1,200mA 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
	<6 months	-20°C to 45°C
	<1 month	-20°C to 55°C

Typical discharge characteristics



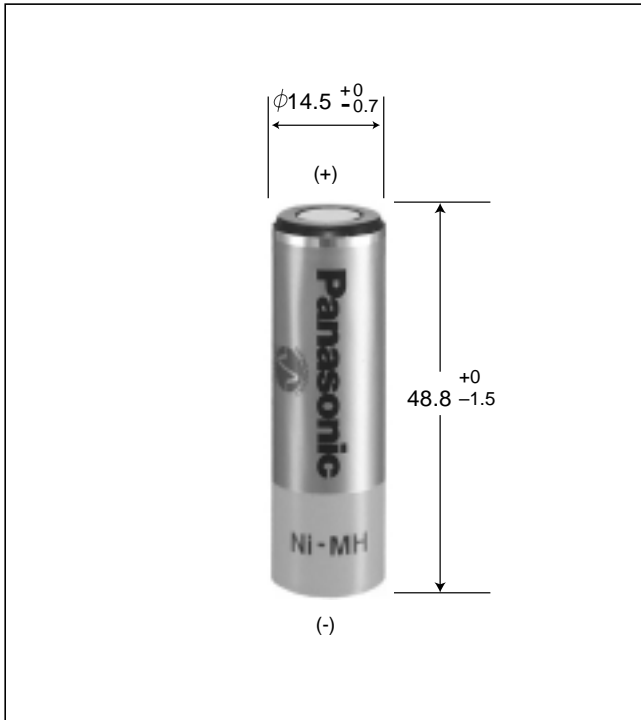
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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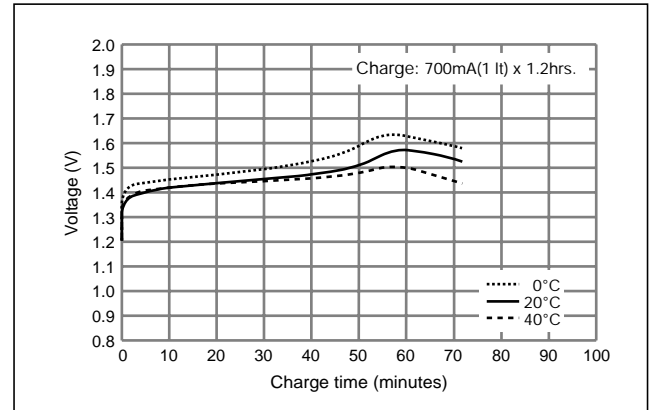
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-70AA/FT Cylindrical AA size (HR15/51)

Dimensions (with tube) (mm)



Typical charge characteristics

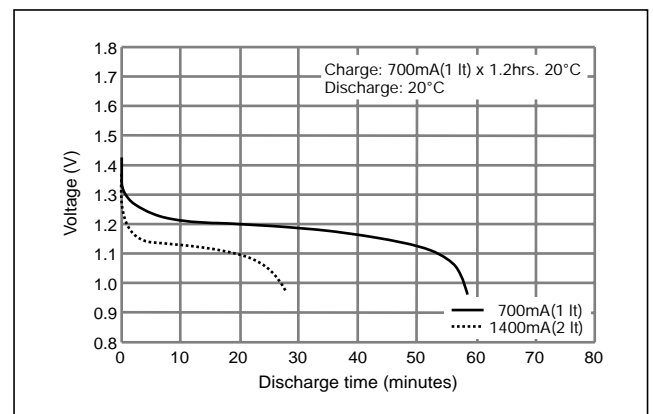
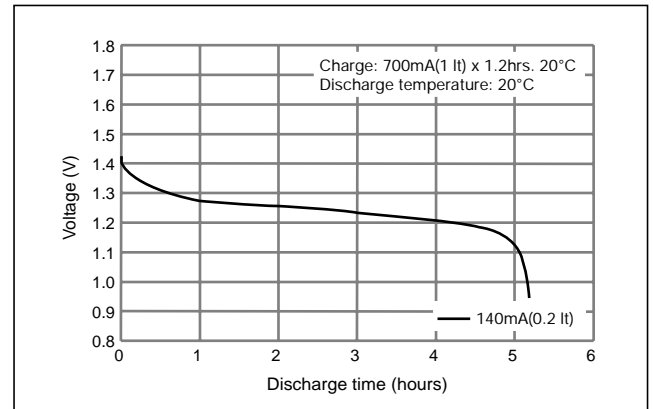


Specifications

Diameter	14.5+0 / -0.7mm
Height	48.8+0 / -1.5mm
Approximate Weight	21g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	780mAh	
	Rated (min)	700mAh	
Approx. Internal impedance at 1000Hz at charged state		25mΩ	
Charge	Standard	70mA x 16hrs.	
	Rapid ^{*3}	700mA 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	
	<6 months	-20°C to 45°C	
	<1 month	-20°C to 55°C	

Typical discharge characteristics



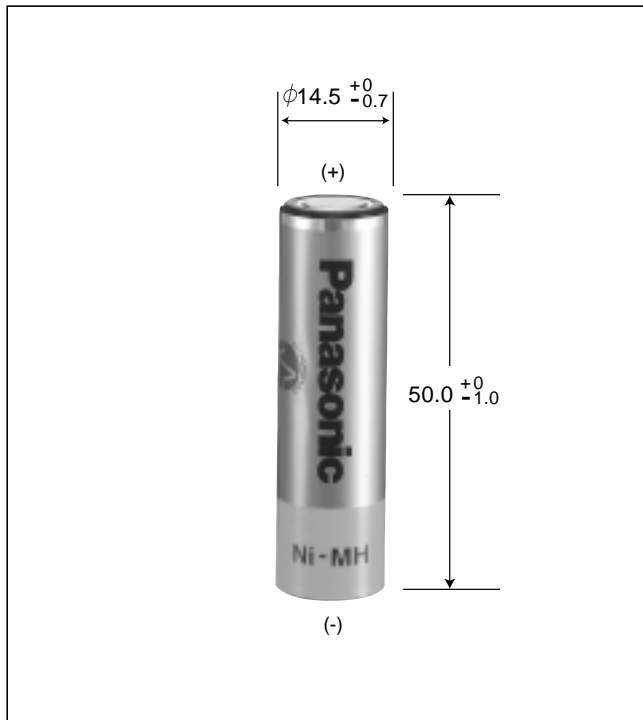
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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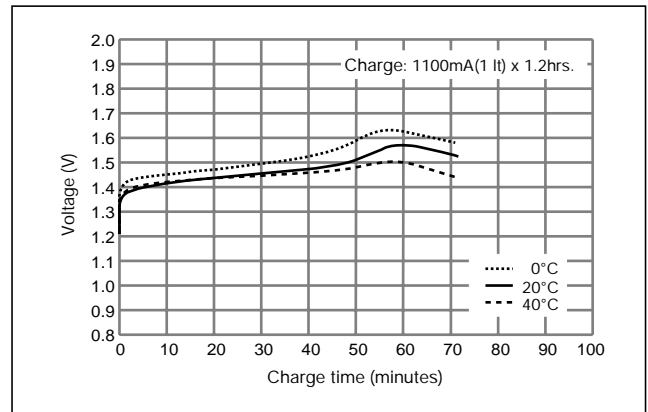
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-110AA/FT Cylindrical AA size (HR15/51)

Dimensions (with tube) (mm)



Typical charge characteristics

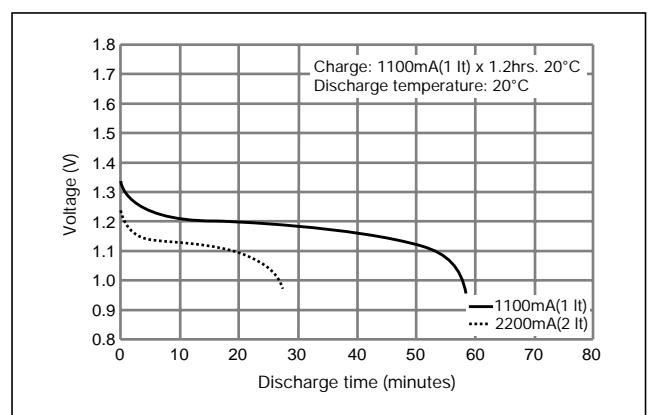
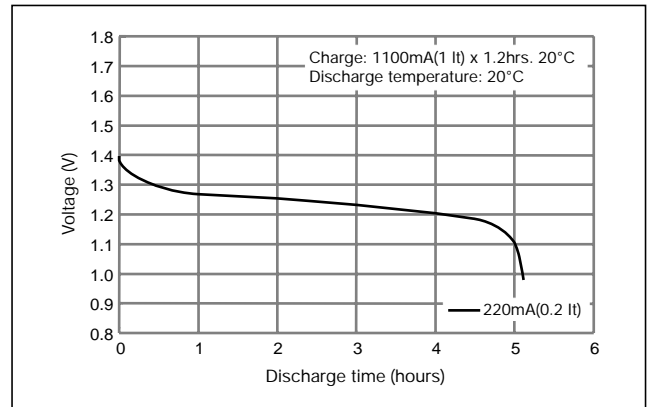


Specifications

Diameter	14.5+0 / -0.7mm
Height	50.0+0 / -1.0mm
Approximate Weight	24g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	1,180mAh	
	Rated (min)	1,100mAh	
Approx. Internal impedance at 1000Hz at charged state		16mΩ	
Charge	Standard	110mA x 16hrs.	
	Rapid ^{*3}	1,100mA 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	

Typical discharge characteristics



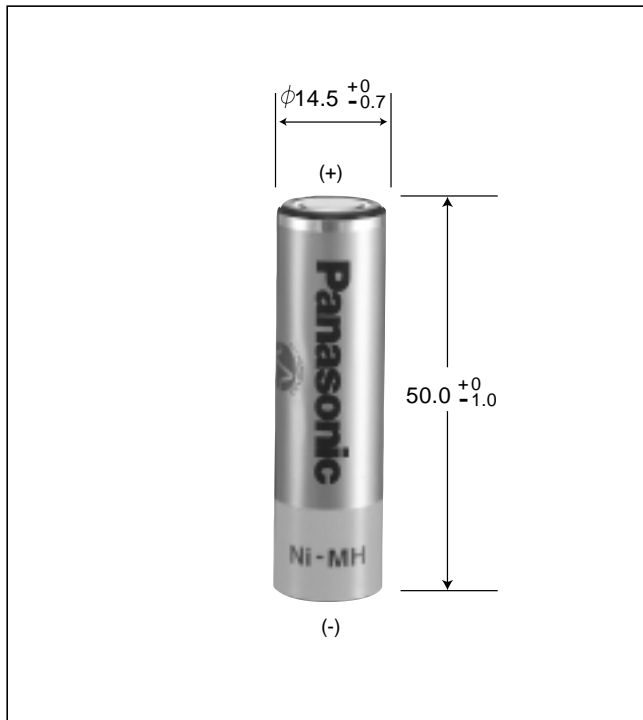
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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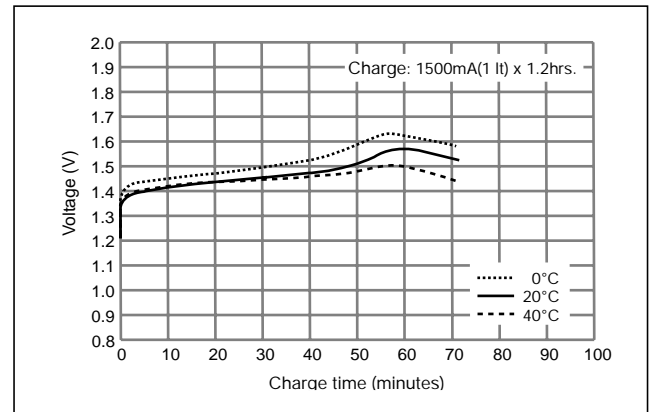
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-150AA/FT Cylindrical AA size (HR15/51)

Dimensions (with tube) (mm)



Typical charge characteristics

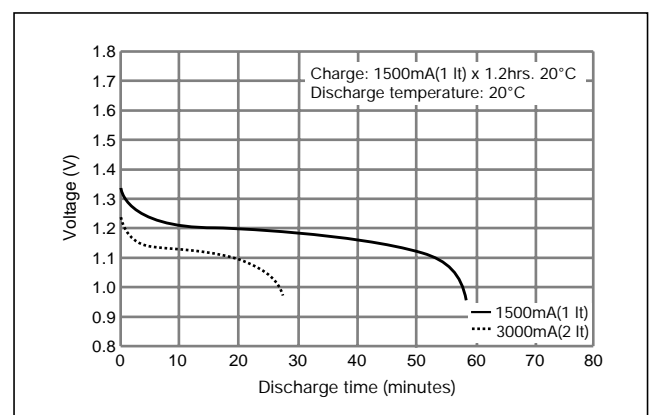
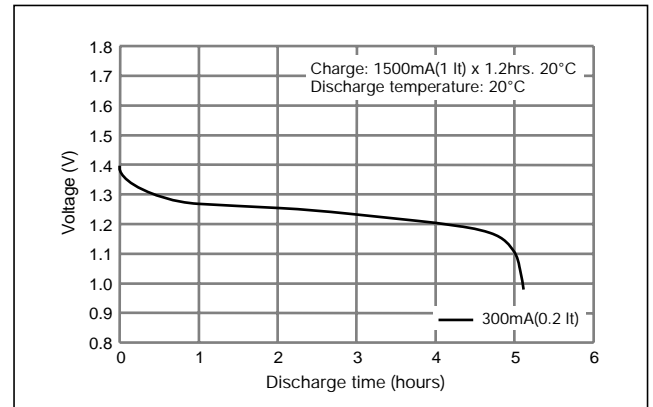


Specifications

Diameter	14.5+0 / -0.7mm
Height	50.0+0 / -1.0mm
Approximate Weight	26g

Nominal Voltage		1.2V
Discharge Capacity ^{*1}	Average ^{*2}	1,580mAh
	Rated (min)	1,500mAh
Approx. Internal impedance at 1000Hz at charged state		23mΩ
Charge	Standard	150mA x 16hrs.
	Rapid ^{*3}	1,500mA 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

Typical discharge characteristics



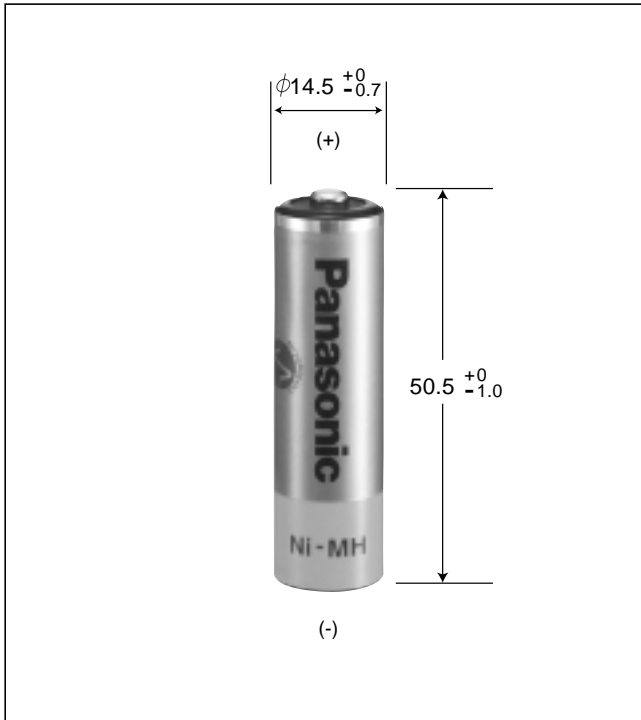
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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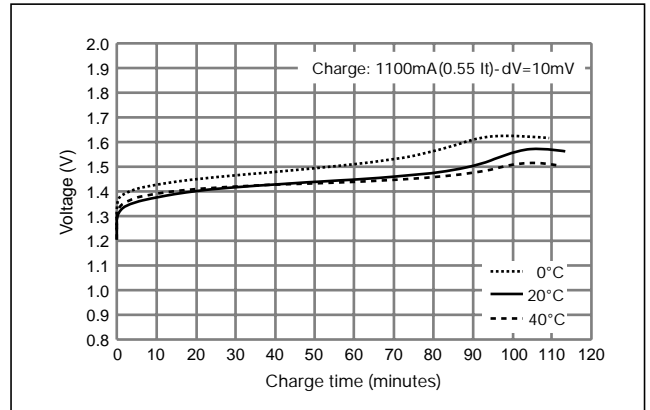
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-210AA/HT Cylindrical AA size (HR15/51)

Dimensions (with tube) (mm)



Typical charge characteristics

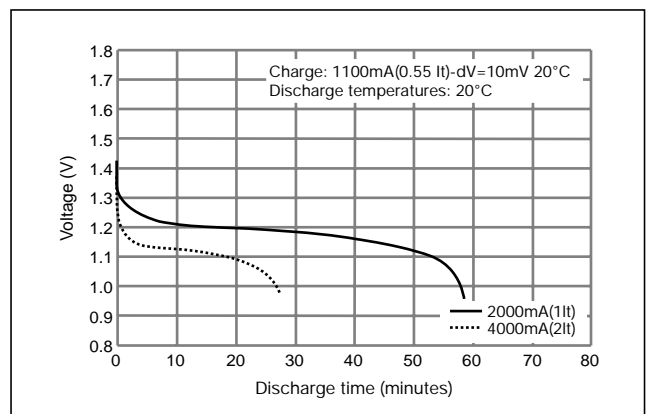
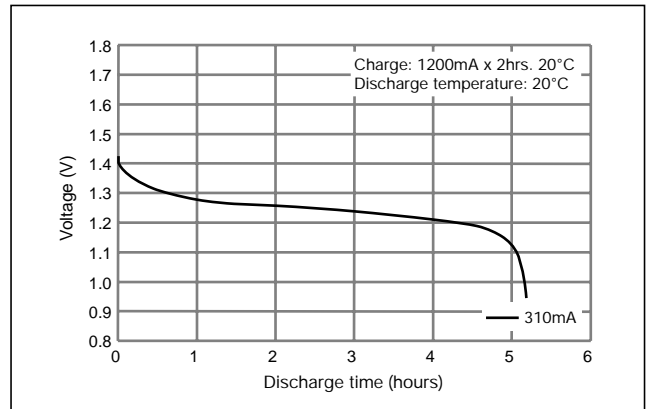


Specifications

Diameter	14.5+0 / -0.7mm
Height	50.5+0 / -1.0mm
Approximate Weight	29g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	2,080mAh	
	Rated (min)	2,000mAh	
Approx. Internal impedance at 1000Hz at charged state		20mΩ	
Charge	Standard	200mA x 16hrs.	
	Rapid ^{*3}	1,200mA x 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	

Typical discharge characteristics



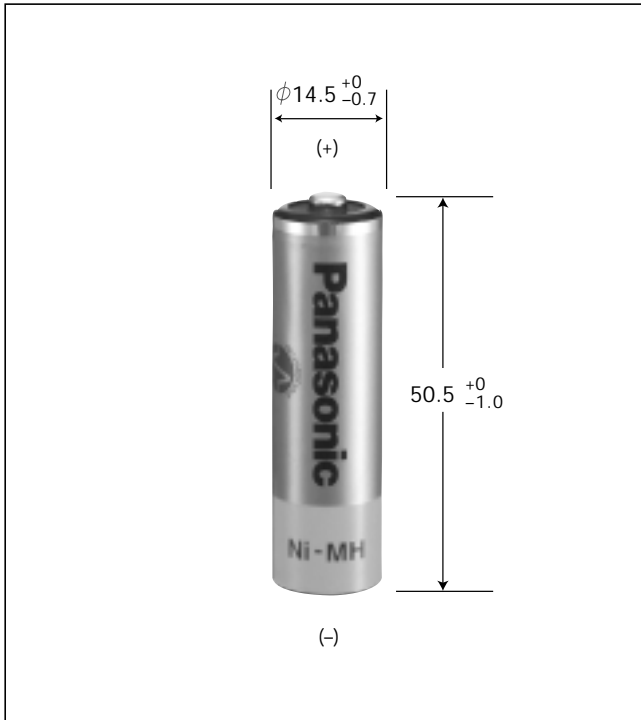
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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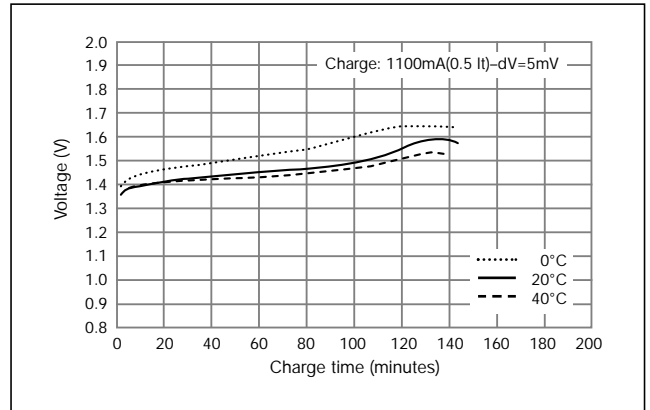
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-260AA/HT Cylindrical AA size (HR15/51)

Dimensions (with tube) (mm)



Typical charge characteristics



Specifications

Diameter	14.5+0 / -0.7mm
Height	50.5+0 / -1.0mm
Approximate Weight	30g

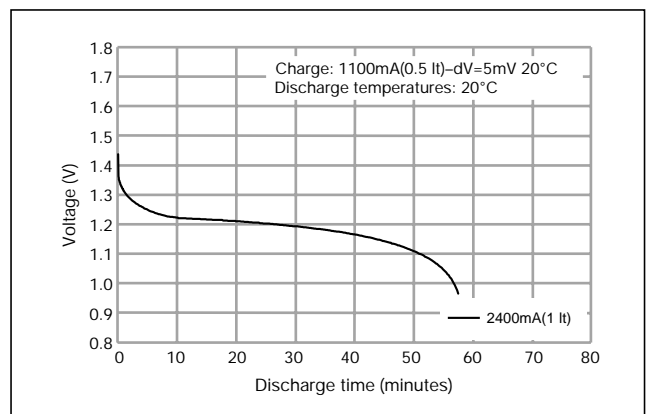
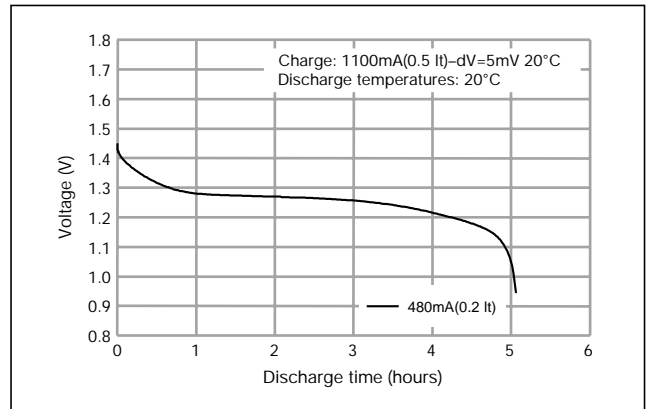
Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	2,500mAh	
	Rated (min)	2,400mAh	
Approx. Internal impedance at 1000Hz at charged state		40mΩ	
Charge	Standard	240mA x 16hrs.	
	Rapid ^{*3}	1,200mA x 2.2hrs.	
Ambient Temperature	Charge	Standard	0°C to 45°C
		Rapid	0°C to 40°C
	Discharge		-10°C to 65°C
Storage	<1 year	-20°C to 35°C	
	<6 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.

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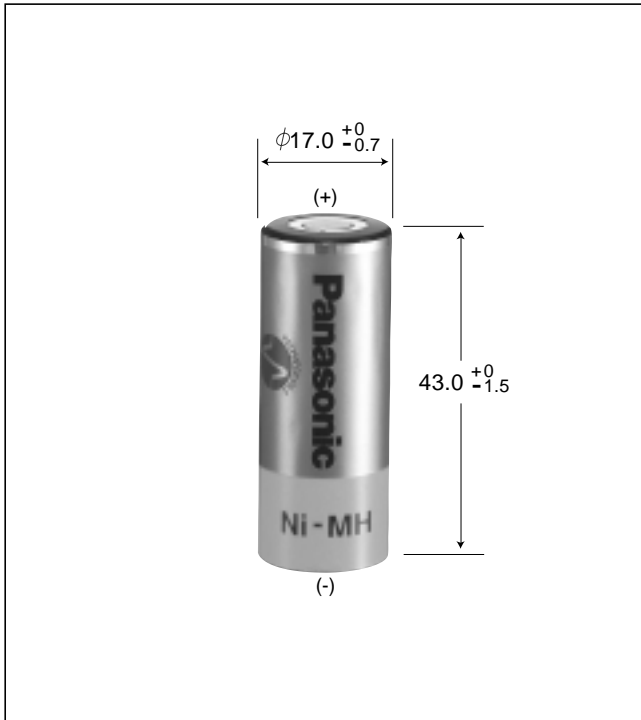
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

Typical discharge characteristics

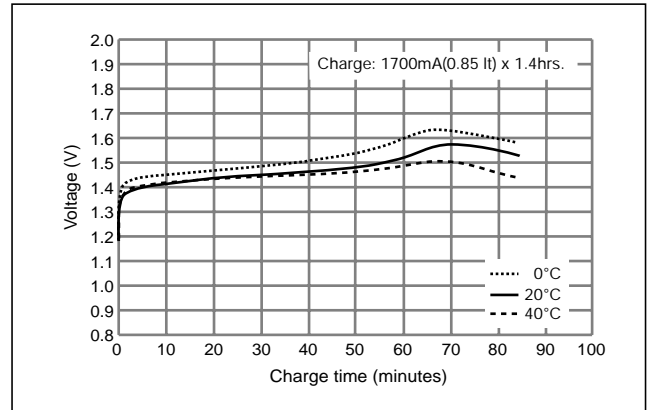


HHR-200A/FT Cylindrical 4/5A size (HR17/43)

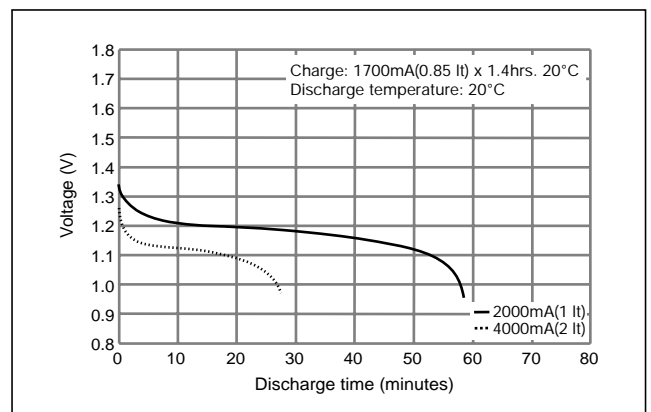
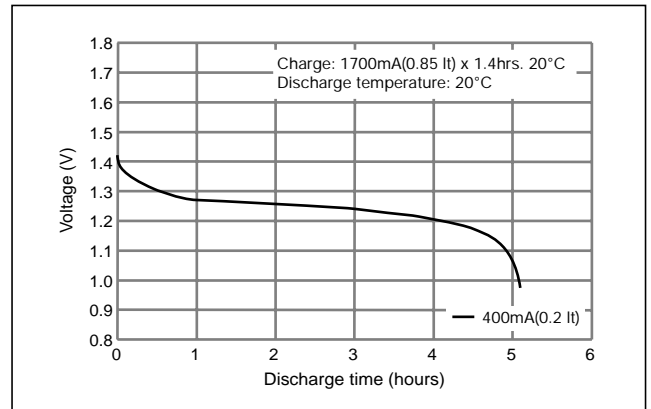
Dimensions (with tube) (mm)



Typical charge characteristics



Typical discharge characteristics



Specifications

Diameter	17.0+0 / -0.7mm
Height	43.0+0 / -1.5mm
Approximate Weight	32g

Nominal Voltage		1.2V
Discharge Capacity ^{*1}	Average ^{*2}	2,040mAh
	Rated (min)	2,000mAh
Approx. Internal impedance at 1000Hz at charged state		20mΩ
Charge	Standard	200mA x 16hrs.
	Rapid ^{*3}	1,700mA x 1.4hrs.
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

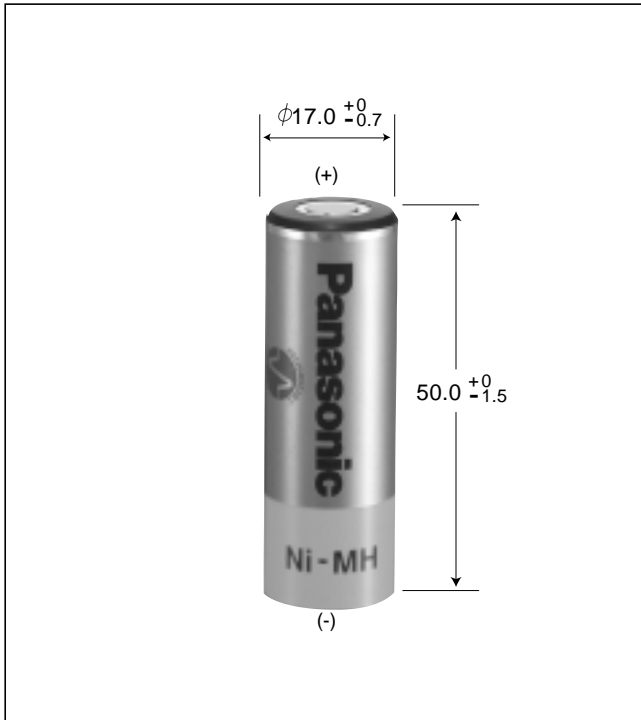
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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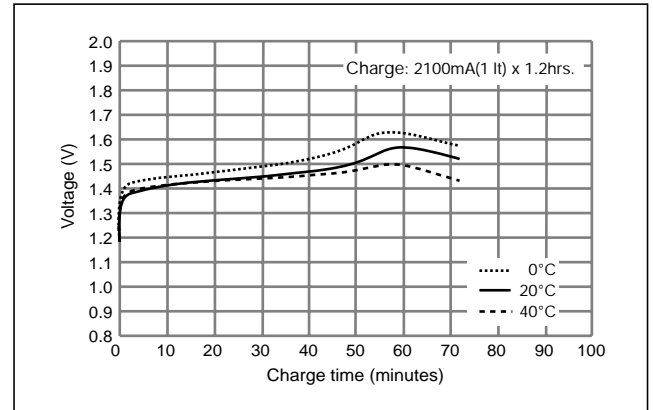
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-210A/FT Cylindrical A size (HR17/50)

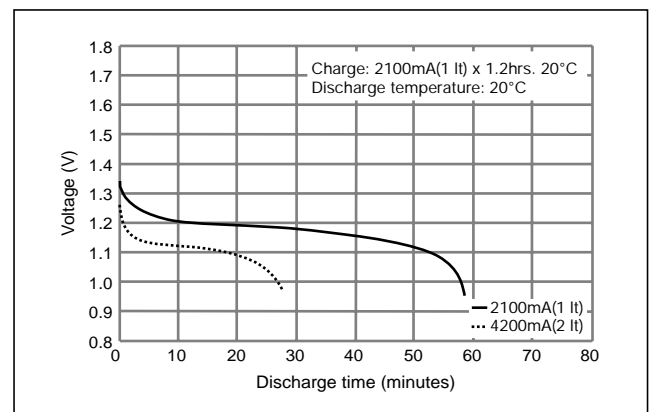
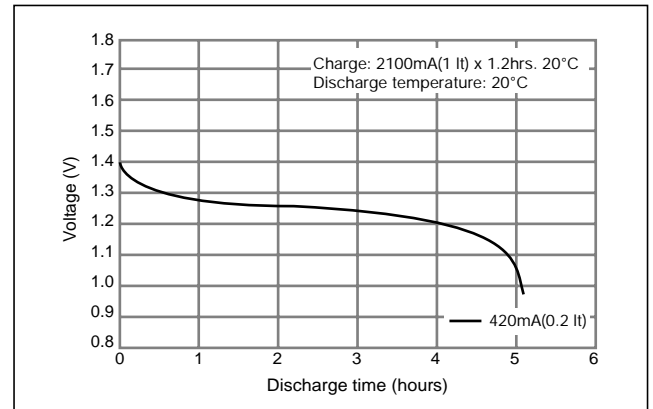
Dimensions (with tube) (mm)



Typical charge characteristics



Typical discharge characteristics



Specifications

Diameter	17.0+0 / -0.7mm
Height	50.0+0 / -1.5mm
Approximate Weight	38g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	2,200mAh	
	Rated (min)	2,100mAh	
Approx. Internal impedance at 1000Hz at charged state		20mΩ	
Charge	Standard	210mA x 16hrs.	
	Rapid ^{*3}	2,100mA 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.

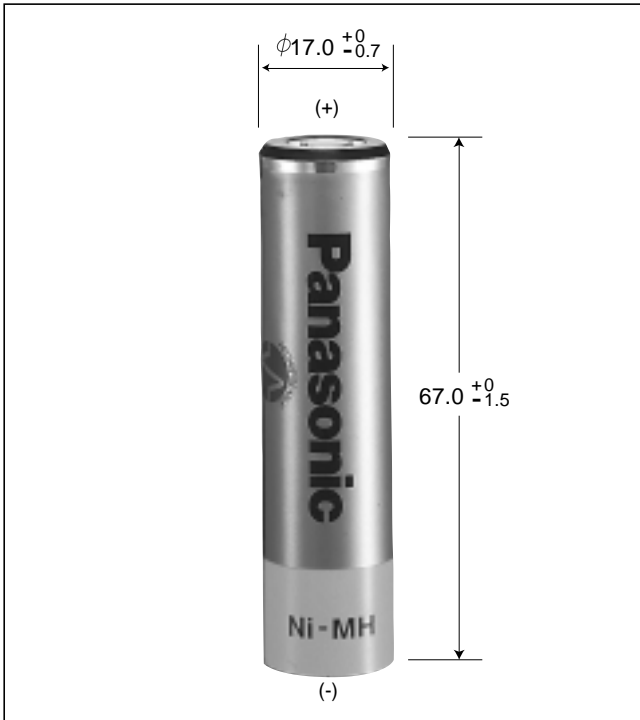
*3 Need specially designed control system. Please contact Panasonic for details.

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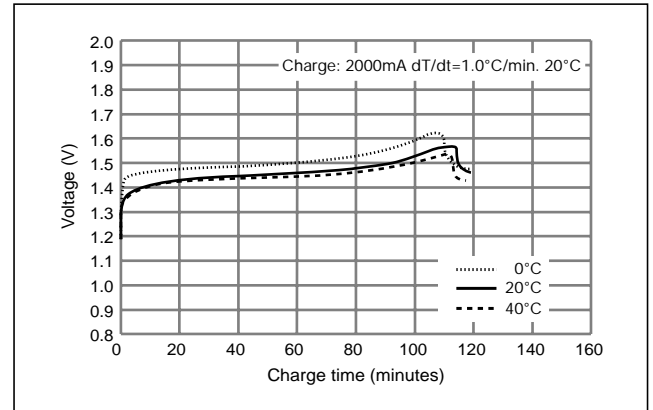
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-380A/FT Cylindrical L-A size (HR17/67)

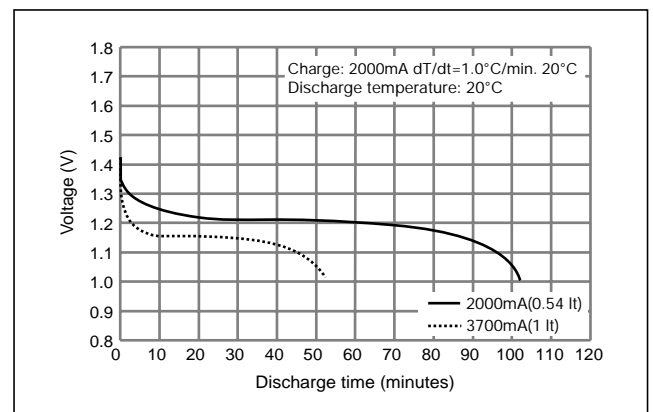
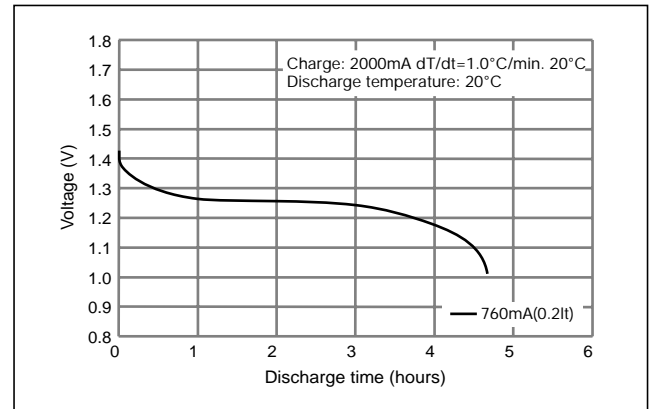
Dimensions (with tube) (mm)



Typical charge characteristics



Typical discharge characteristics



Specifications

Diameter	17.0+0 / -0.7mm
Height	67.0+0 / -1.5mm
Approximate Weight	53g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	3,800mAh	
	Rated (min)	3,700mAh	
Approx. Internal impedance at 1000Hz at charged state		25mΩ	
Charge	Standard	370mA 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	

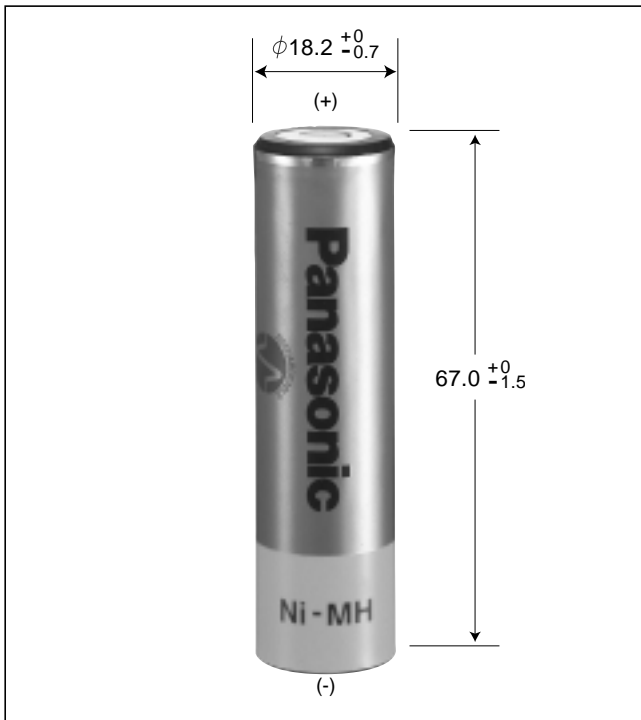
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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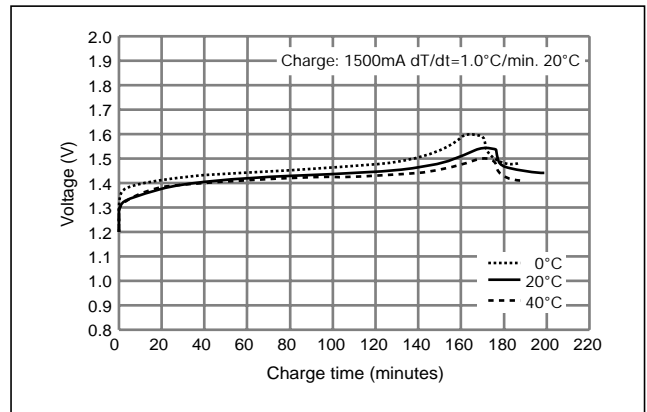
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-450A/FT Cylindrical LFat/A size

Dimensions (with tube) (mm)



Typical charge characteristics

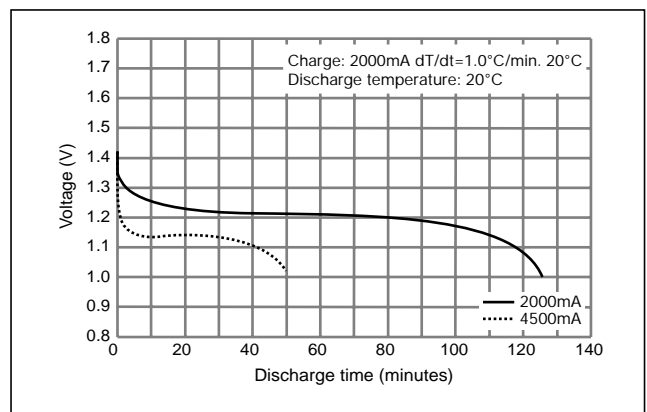
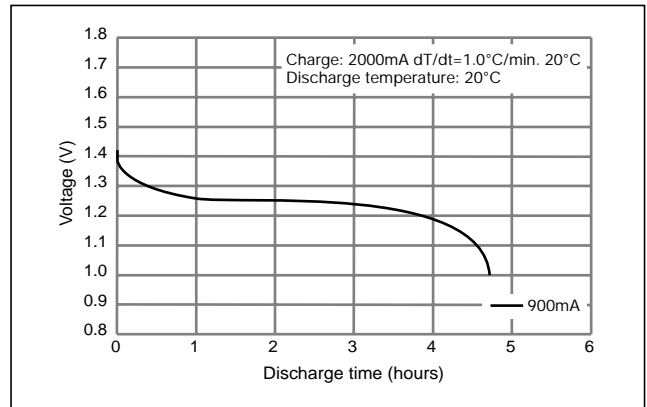


Specifications

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

Nominal Voltage		1.2V	
Discharge Capacity ^{*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	

Typical discharge characteristics



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

*2 For reference only.

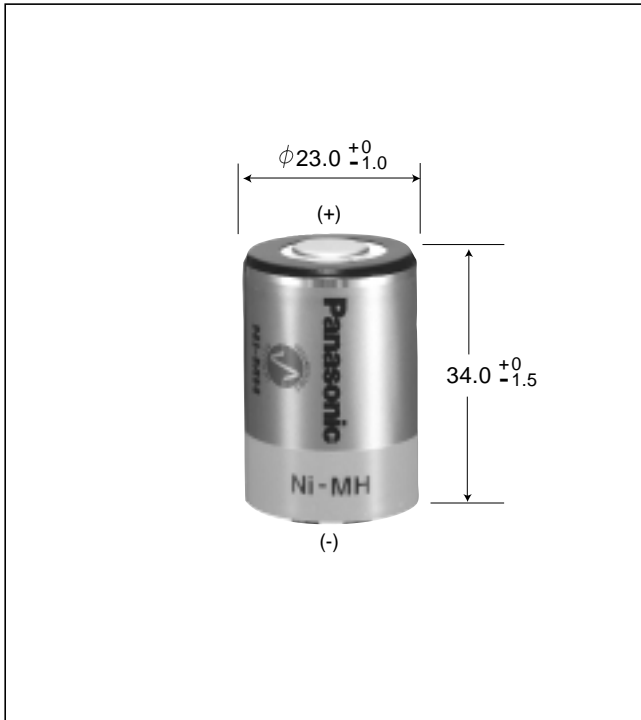
*3 Need specially designed control system. Please contact Panasonic for details.

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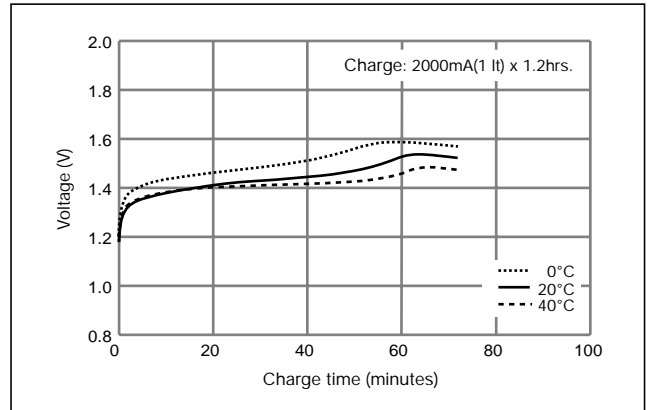
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-200SCP/FT Cylindrical 4/5 SC size

Dimensions (with tube) (mm)



Typical charge characteristics

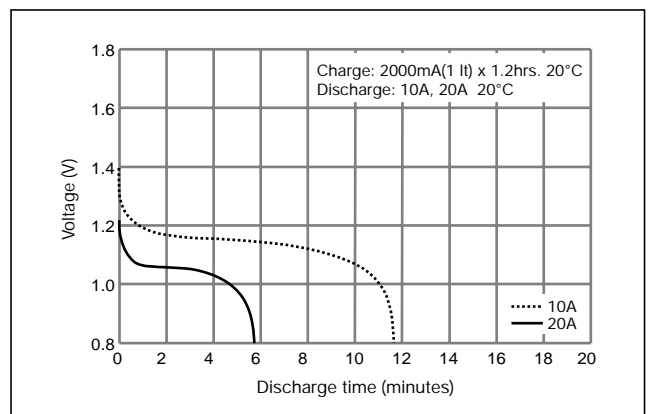
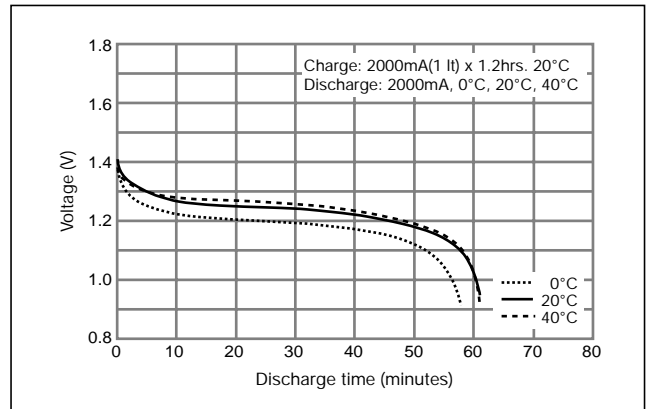


Specifications

Diameter	23.0+0 / -1.0mm
Height	34.0+0 / -1.5mm
Approximate Weight	43g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	2,100mAh	
	Rated (min)	1,900mAh	
Approx. Internal impedance at 1000Hz at charged state		5mΩ	
Charge	Standard	200mA x 16hrs.	
	Rapid ^{*3}	2,000mA 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	

Typical discharge characteristics



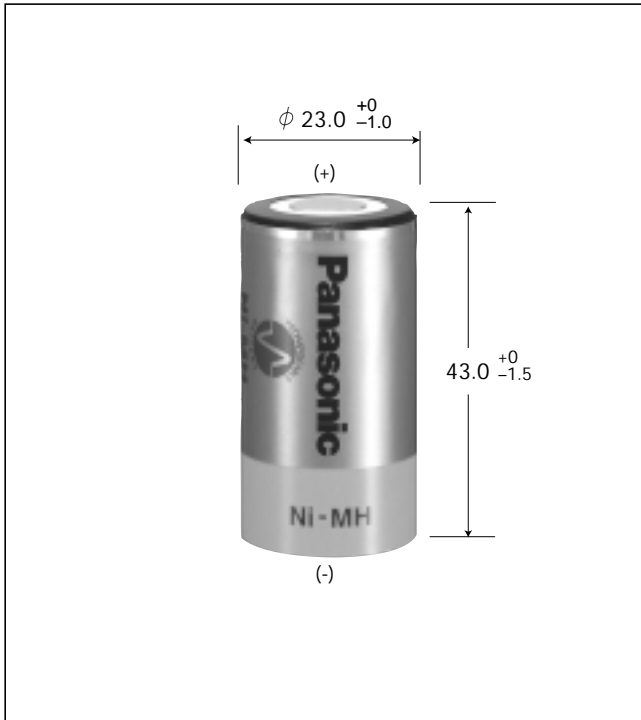
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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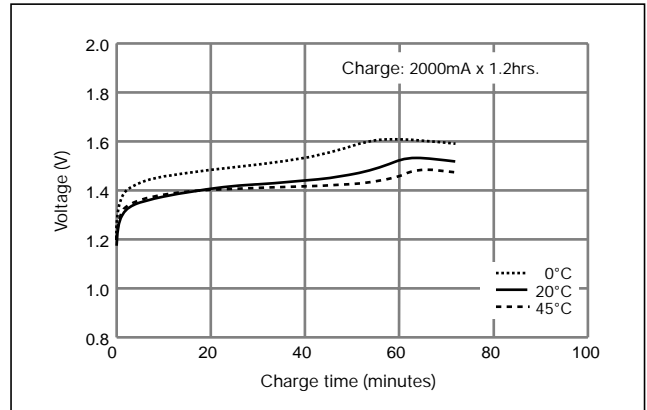
*The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

HHR-200SCR/FT Cylindrical SC size (HR23/43)

Dimensions (with tube) (mm)



Typical charge characteristics

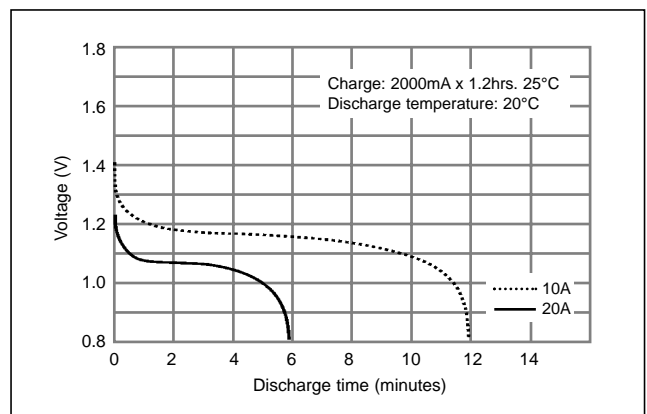
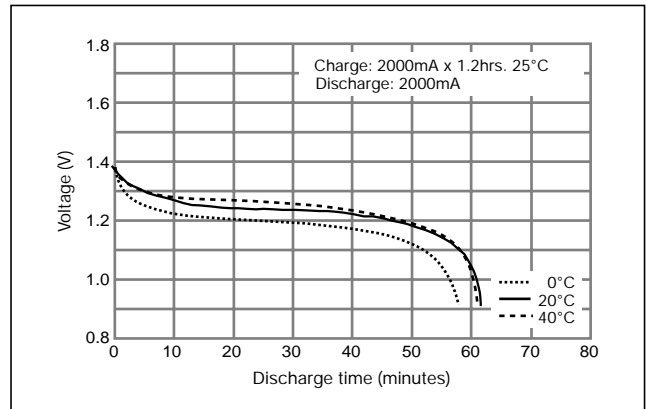


Specifications

Diameter	23.0+0 / -1.0mm
Height	43.0+0 / -1.5mm
Approximate Weight	48g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	2,100mAh	
	Rated (min)	1,900mAh	
Approx. Internal impedance at 1000Hz at charged state		5mΩ	
Charge	Standard	200mA x 16hrs.	
	Rapid ^{*3}	2,000mA 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	
	<6 months	-20°C to 45°C	
	<1 month	-20°C to 55°C	

Typical discharge characteristics



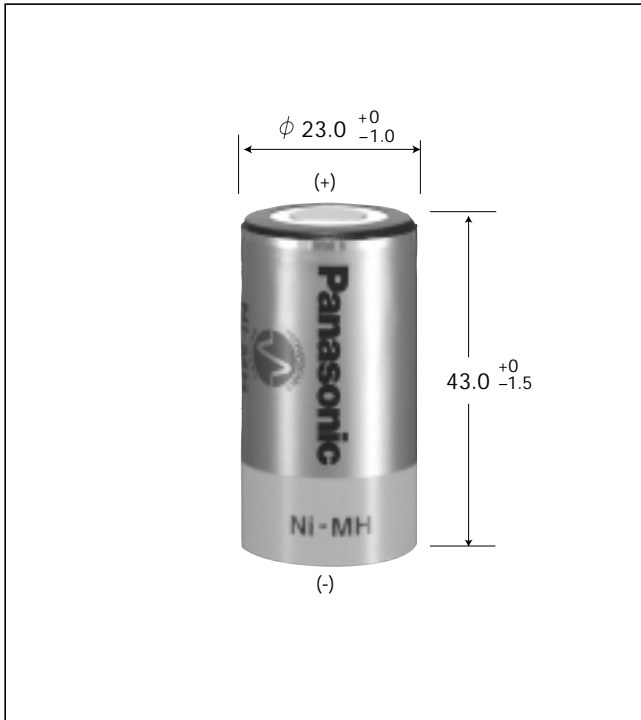
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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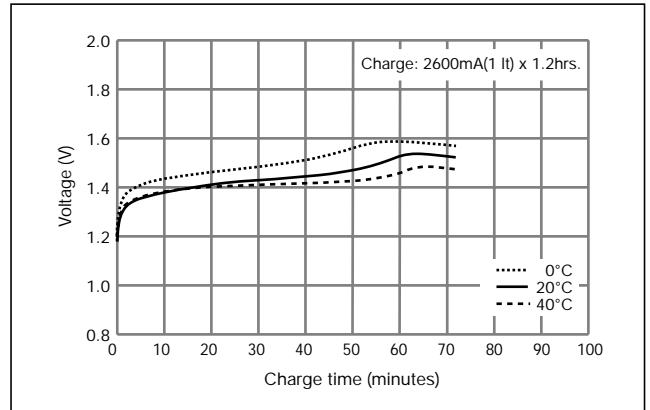
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HHR-260SCP/FT Cylindrical SC size (HR23/43)

Dimensions (with tube) (mm)



Typical charge characteristics

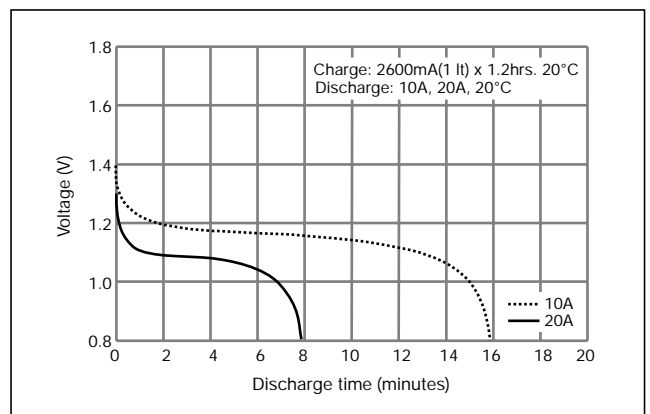
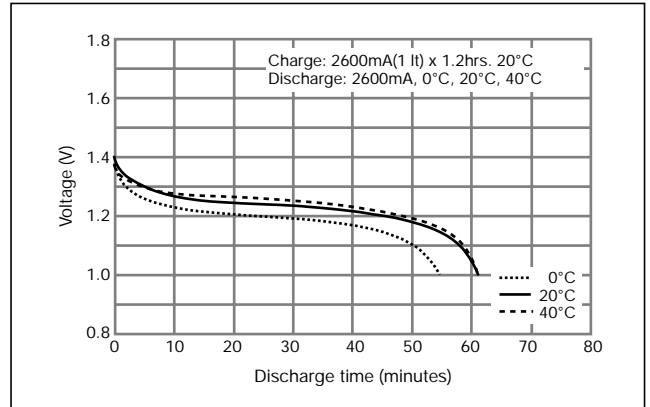


Specifications

Diameter	23.0+0 / -1.0mm
Height	43.0+0 / -1.5mm
Approximate Weight	55g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	2,600mAh	
	Rated (min)	2,450mAh	
Approx. Internal impedance at 1000Hz at charged state		5mΩ	
Charge	Standard	260mA x 16hrs.	
	Rapid ^{*3}	2,600mA 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	

Typical discharge characteristics



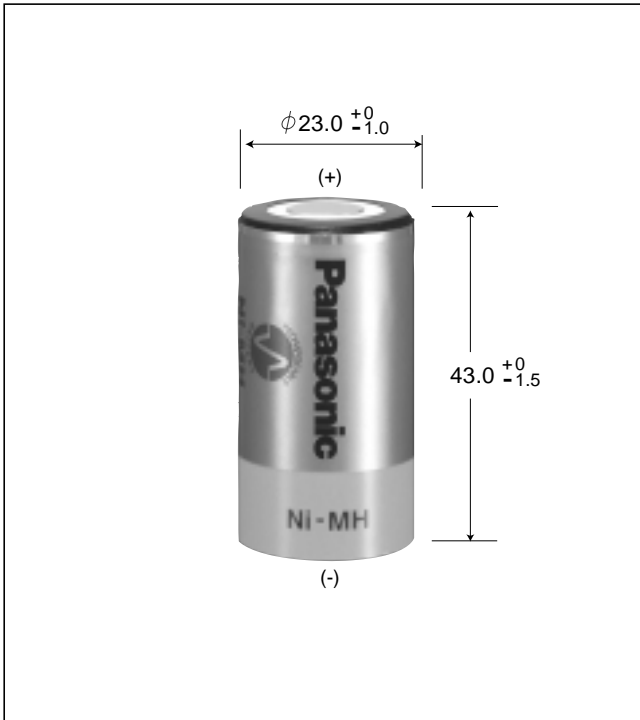
^{*1} After charging at 0.1It for 16 hours, discharging at 0.2It.
^{*2} For reference only.
^{*3} Need specially designed control system. Please contact Panasonic for details.

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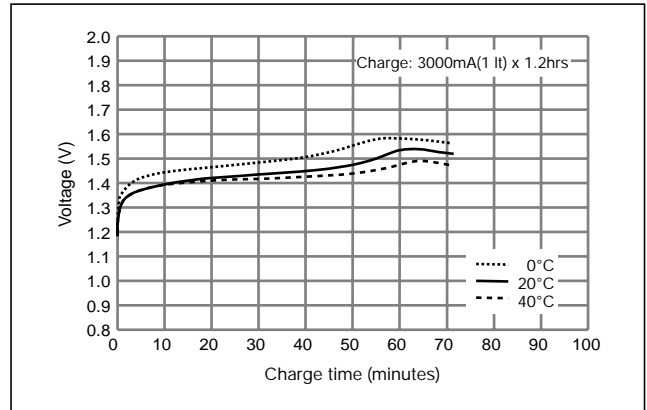
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HHR-300SCP/FT Cylindrical SC size (HR23/43)

Dimensions (with tube) (mm)



Typical charge characteristics

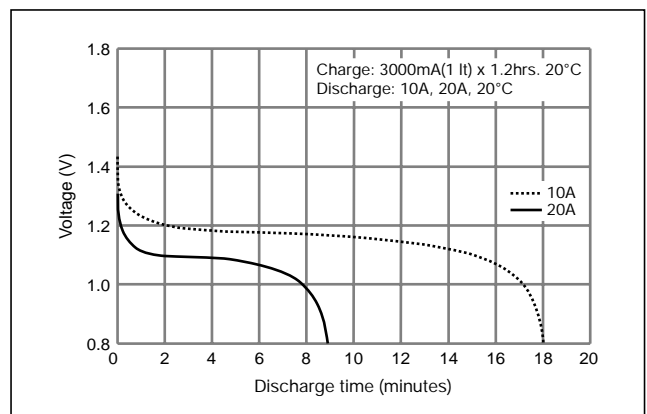
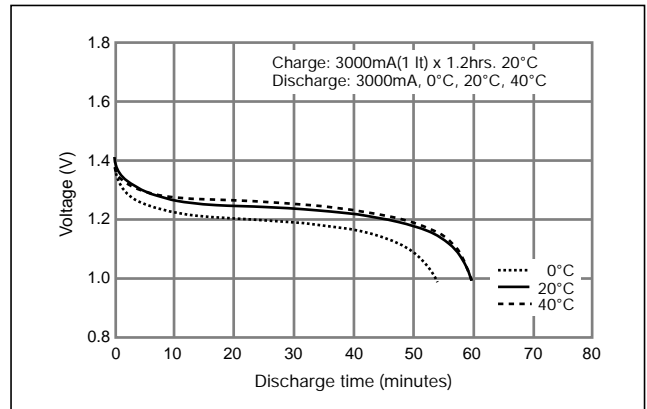


Specifications

Diameter	23.0+0 / -1.0mm
Height	43.0+0 / -1.5mm
Approximate Weight	57g

Nominal Voltage		1.2V	
Discharge Capacity ^{*1}	Average ^{*2}	3,050mAh	
	Rated (min)	2,800mAh	
Approx. Internal impedance at 1000Hz at charged state		4mΩ	
Charge	Standard	300mA x 16hrs.	
	Rapid ^{*3}	3,000mA 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	

Typical discharge characteristics



^{*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.

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