

Data Sheet <sup>1.)</sup>

<b>Type Number:</b>	55750	
<b>Sytem:</b>	Nickel Metal Hydride / KOH Electrolyte	
<b>Nominal Voltage [V]:</b>	1.2	
<b>Nominal Capacity C [mAh]:</b>	500	
<b>Typical Capacity C [mAh]:</b>	510	
	at 100 mA / 1.00 V	
<b>Weight, approx. [g]</b>	14.0	
<b>Dimensions [mm]:</b>	<b>min.</b>	<b>max.</b>
<b>Length [l]:</b>	24.0	24.2
<b>Width Facing [w]:</b>	33.9	34.1
<b>Height [h]:</b>	6.3	6.5

<b>UL Recognition:</b>	MH13654
<b>Coding:</b>	Manufacturing 5 digit code (123 = day / 4 = year / 5 = version)

<b>Temperature Ranges [°C]</b>	<b>min.</b>	<b>max.</b>
<b>Storage:</b> less than 1 week	-40	85
less than 1 month	-40	65
<b>Discharge:</b>	-20	85
<b>Charge:</b>	0	85

<b>Charging Method:</b>	
<b>Normal Charging:</b>	50 mA for 14 - 16 h
<b>Accelerated Charging (20°C):</b>	150 mA for 4 h
	Time controlled, voltage control recommended
<b>Fast Charging (0 - 55°C):</b>	500 mA for h *
<b>Trickle Charging:</b>	5 - 15 mA

<b>Overcharge (20°C):</b>	15 mA continuous
	50 mA up to 1 year

<b>Charge Retention [%] at 20°C:</b>	80
	Capacity available after 1 month Storage at 20°C

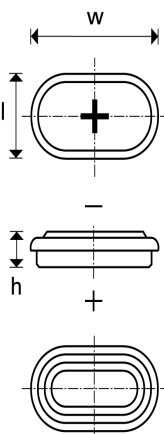
<b>Internal Resistance [Ohm]:</b>	0.1
	at charged cells, 20°C, DC: 0.2 CA / 2 CA, (IEC 61951-2)

<b>Impedance [Ohm]:</b>	0.020
	Typical value at charged cells, 20°C, AC: 1 kHz, (IEC 61951-2)

<b>Typical Capacities [mAh]:</b>	
at 500 mA / 0.9 V	400
at 1500 mA / 0.9 V	200

<b>Max. Discharge Current (cont.) [mA]:</b>	1500
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<b>Life Expectancy (typical):</b>	
<b>IEC Cycle:</b>	1000 Cycles (IEC 61951-2)
<b>Trickle Charge:</b>	up to 5 years (20°C)
<b>Trickle Charge:</b>	up to 3 years (45°C)



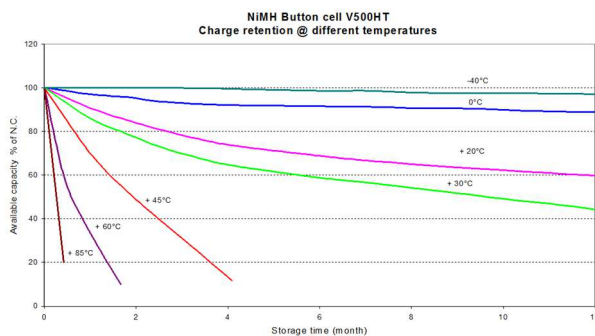
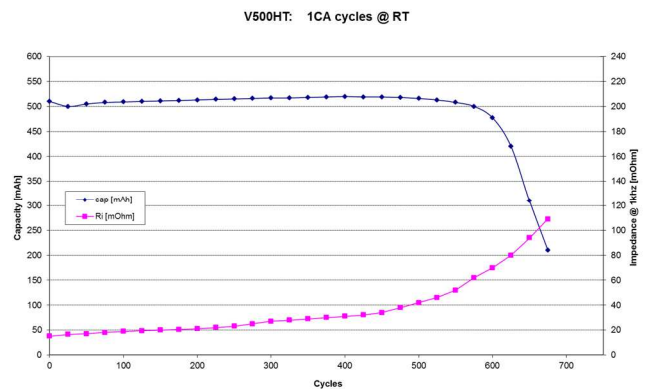
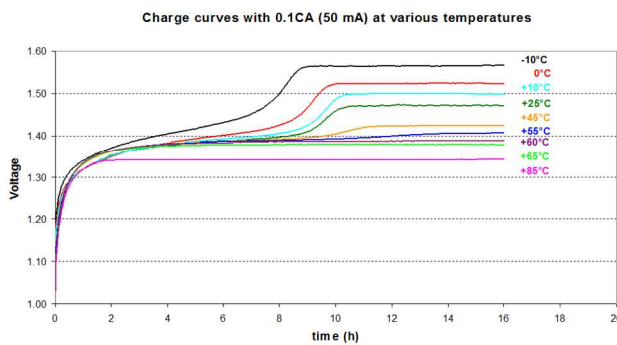
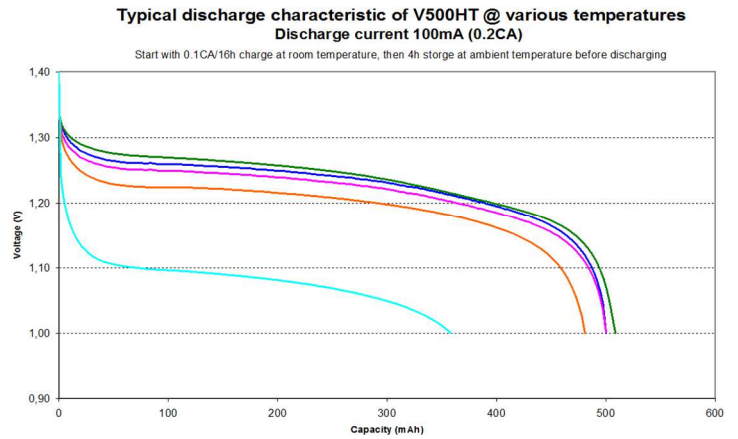
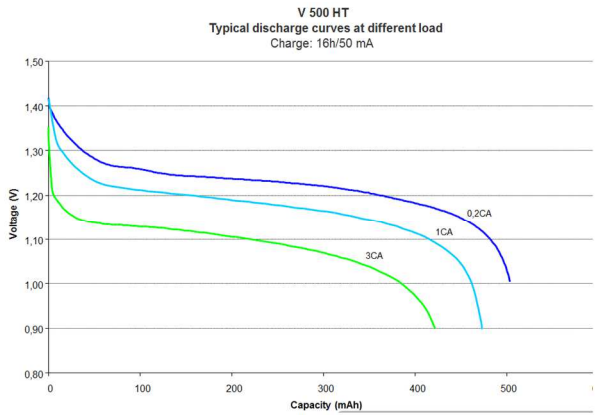
\* (-dv = 5-10 mv / cell; dT / dt = 0.7°C / min)

Capacities based on normal charging

<sup>1.)</sup> Prior to use read Rechargeable NiMH Button Cell handbook @ [www.varta-microbattery.com](http://www.varta-microbattery.com)

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## Typical Performance Data:



All performance data are single cell data.  
Data are typical data and not guaranteed and may vary due to application conditions.