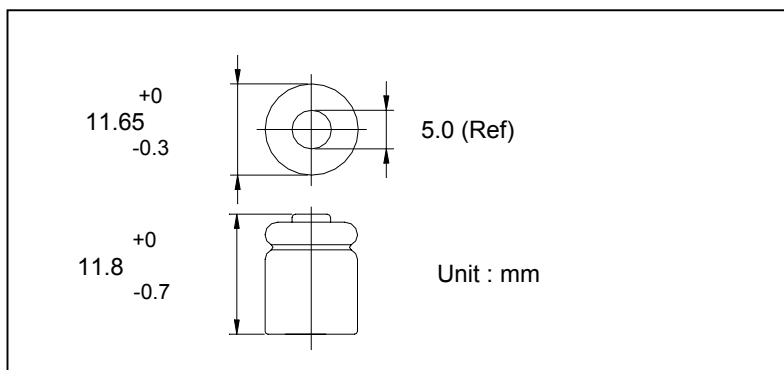


# GP Batteries

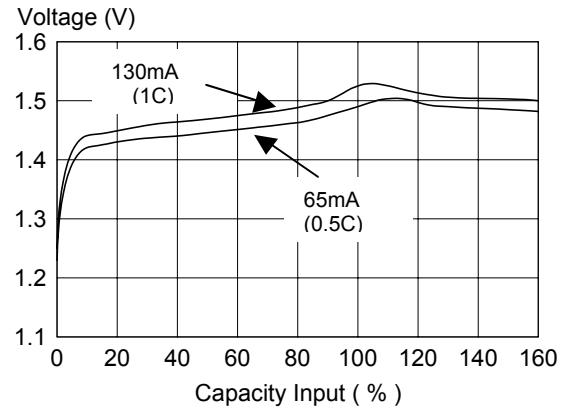
## Data Sheet

Model No.: GP13NH

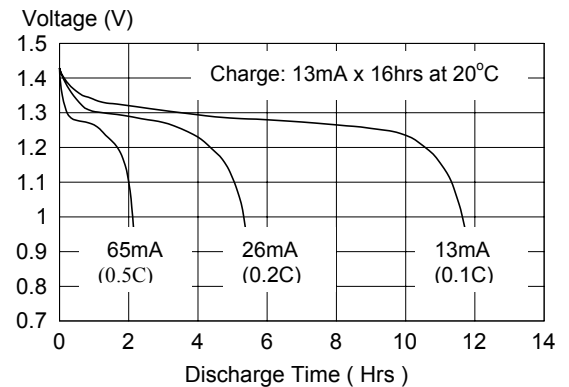
Type	: Rechargeable Nickel Metal Hydride Cylindrical Cell	
Nominal Dimension (with Sleeve)	: $\Phi = 11.65$ mm H = 11.80 mm	
Applications	: Recommended discharge current 13 to 390 mA	
Nominal Voltage	: 1.2V	
Capacity	: Minimum: 130 mAh Typical: 137 mAh when discharged at 0.2C to 1.0V at 20°C	
Charging Condition	: 13 mA for 16 hrs at 20°C	
Fast Charge	: 65 mA to 130 mA (0.5 to 1C) charge termination control recommended control parameters: - $\Delta V$ : 0 - 5mV DT/dt ** : 0.8°C/min (0.5 to 0.9C) : 0.8 - 1°C/min (1C) TCO ** : 45 - 50°C Timer ** : 105% nominal input ** For reference only	
Service Life	: >500 cycles (IEC standard)	
Continuous Overcharge	: 13 mA maximum current for 1 year No conspicuous deformation and/or leakage	
Weight	: 3.85 g	
Internal Resistance	: Average 130 m $\Omega$ upon fully charged (Range 118 - 150m $\Omega$ )	
Max. Charging Voltage	: 1.5V at 13 mA charging	
Ambient Temperature Range	Standard Charging	: 0 to 45°C
	Fast Charging	: 10 to 45°C
	Discharging	: -20 to 50°C
	Storage	: -20 to 35°C



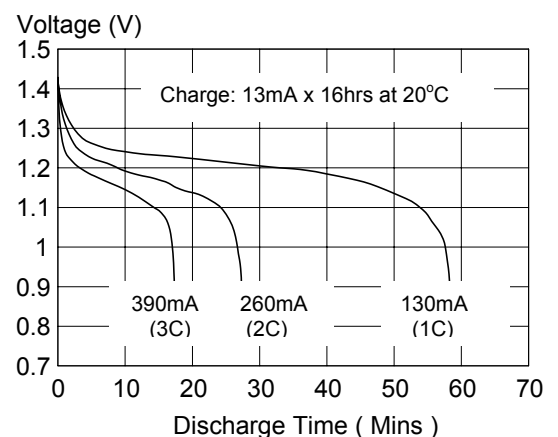
### Fast Charge (charge control required)



### Low rate discharge



### High Rate Discharge



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