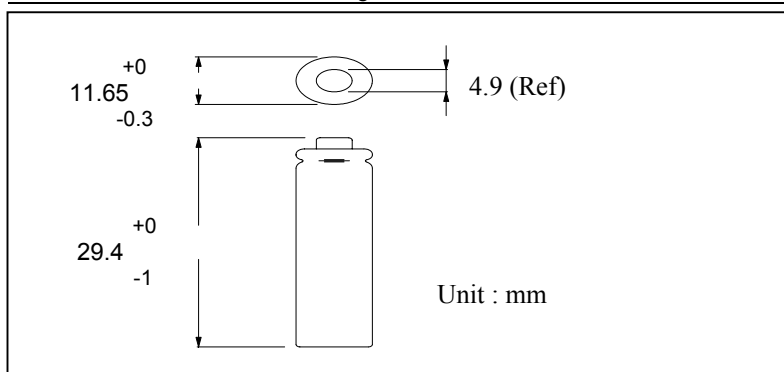


# GP Batteries

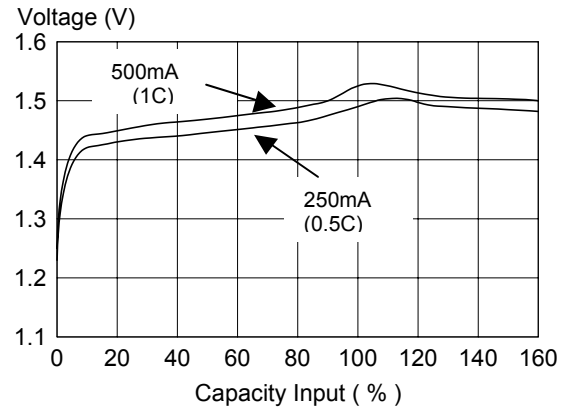
## Data Sheet

Model No.: GP50NH

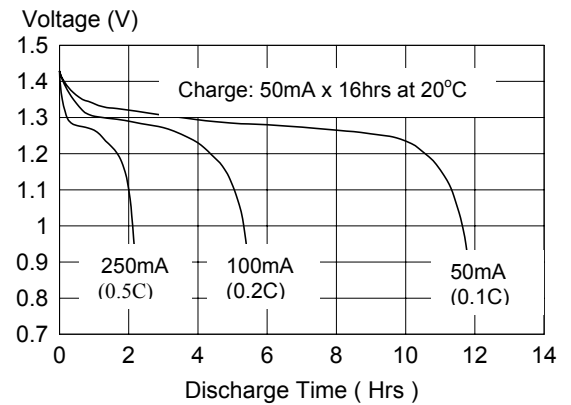
Type	: Rechargeable Nickel Metal Hydride Cylindrical Cell	
Nominal Dimension (with Sleeve)	: $\Phi = 11.65$ mm H = 29.4 mm	
Applications	: Recommended discharge current 50 to 1500mA	
Nominal Voltage	: 1.2V	
Capacity	: Minimum: 500mAh Typical: 520mAh when discharged at 0.2C to 1.0V at 20°C	
Charging Condition	: 50mA for 16 hrs at 20°C	
Fast Charge	: 250mA to 500mA (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	: 50 mA maximum current for 1 year No conspicuous deformation And/or leakage	
Weight	: 9.8 g	
Internal Resistance	: Average 80 m $\Omega$ upon fully charged (Range 75 – 86 m $\Omega$ ) at 1000HZ	
Max. Charging Voltage	: 1.5V at 50 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



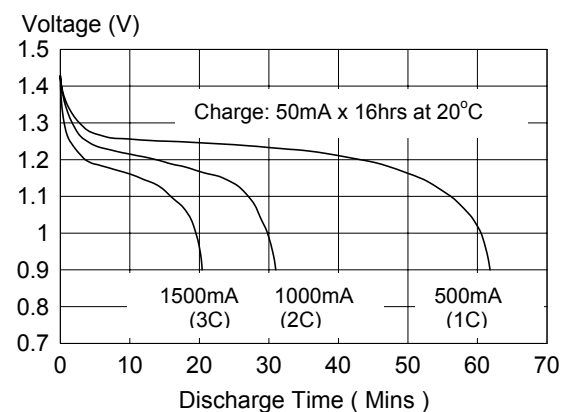
### Fast Charge (charge control required)



### Low rate discharge



### High Rate Discharge



\* The information (subject to change without prior notice) contained in this document is for reference only and should not be used as a basis for product guarantee or warranty. For applications other than those described here, please consult your nearest GP Sales and Marketing Office or Distributors.