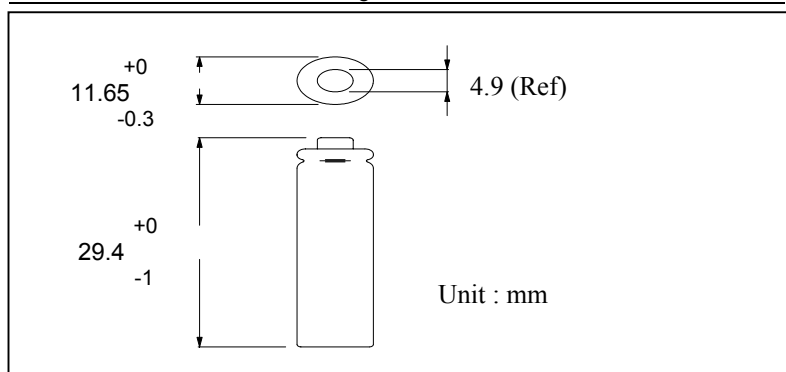


GP Batteries

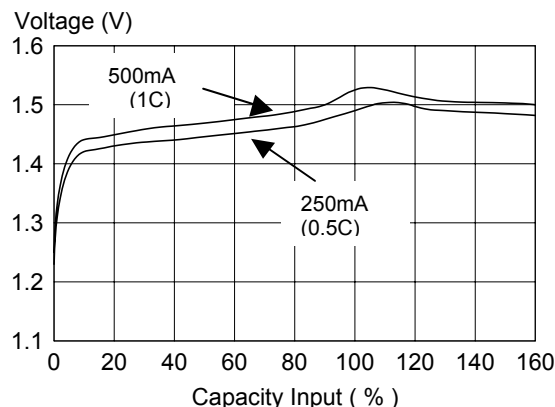
Data Sheet

Model No.: GP50NH

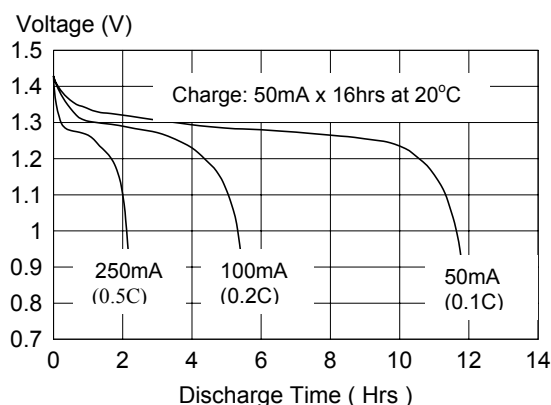
Type	Rechargeable Nickel Metal Hydride Cylindrical Cell		
Nominal Dimension (with Sleeve)	$\Phi = 11.65 \text{ mm}$ $H = 29.4 \text{ mm}$		
Applications	Recommended discharge current 50 to 1500mA		
Nominal Voltage	1.2V		
Capacity	Minimum: 500mAh Typical: 520mAh when discharged at 0.2C to 1.0V at 20°C		
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 Ω upon fully charged (Range 75 – 86 m Ω) 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



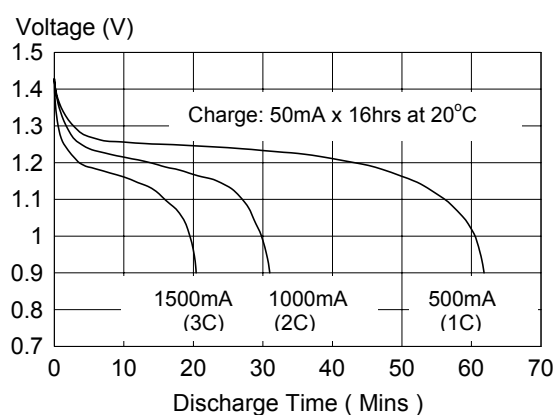
Fast Charge (charge control required)



Low rate discharge



High Rate Discharge



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