

GP Batteries

Data Sheet

Rechargeable Nickel Metal Hydride Battery

Model: GP270AAHC

Revision History

Revision	Date	Initiator	Change description
04	2014-5-26	YQ Chen	New format

Prepared by	Checked by	Approver
RD Engineer	RD Manager	SM
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Date: 2014-5-26	Date: 2014-5-26	Date: 2014-5-26

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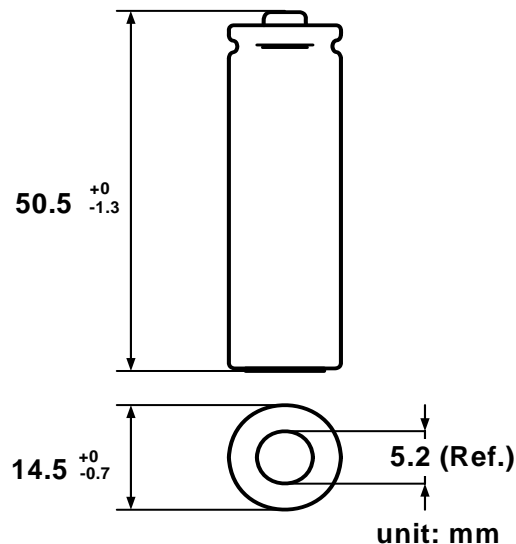
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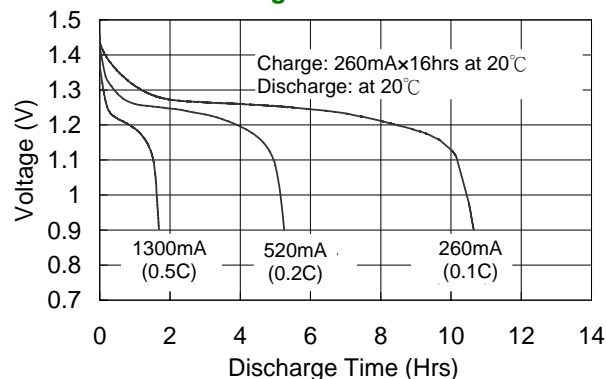
Website: <http://www.gpbatteries.com>

Type	: Rechargeable Nickel Metal Hydride Cylindrical Cell
Nominal Dimension (with Sleeve)	: $\Phi = 14.5\text{mm}$ H = 50.5mm
Applications	: Recommended discharge current 260 to 7800mA
Nominal Voltage	: 1.2V
Capacity	: Nominal: 2600mAh Minimum: 2600mAh Typical: 2600mAh When discharged at 520mA to 1.0V at 20°C
Charging Condition	: 260mA for 16 hrs at 20°C
Charging Retention	: 70% of nominal capacity after cell storage at 20°C for 6months, 50% of nominal capacity after cell storage at 20°C for 1year When discharged at 520mA to 1.0V at 20°C
Fast Charge	: 1300mA to 2600mA (0.5 to 1C) charge termination control recommended control parameters: - ΔV : 0-5mV DT/dt : 0.8°C/min (0.5 to 0.9C) 0.8 - 1°C/min (1C) TCO : 45 - 50°C Timer : 100% nominal input (for ref. only)
Service Life	: ~300 cycles (IEC standard)
Continuous Overcharge	: 260mA maximum current for 1 year. No conspicuous deformation and/or leakage
Weight	: 31.0g
Internal Resistance	: Average 20m Ω upon fully charged (Max.28m Ω) at 1000Hz
Max. Charging Voltage	: 1.5V at 260mA charging
Ambient Temperature Range	: Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C Discharge : -20 to 50°C Storage : -20 to 35°C

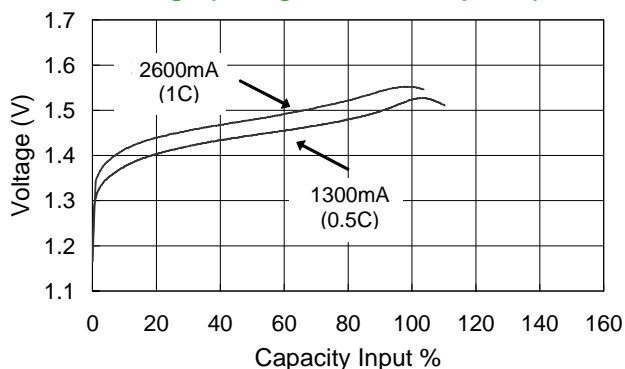
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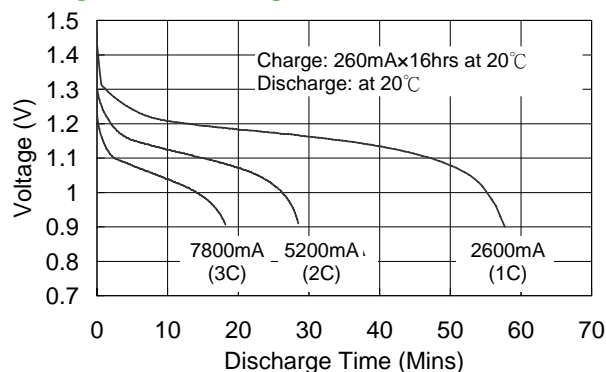
Low Rate Discharge



Fast Charge (Charge Control Required)



High Rate Discharge



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