

# GP Batteries

## Data Sheet

### Rechargeable Nickel Metal Hydride Battery

Model: GP25AAH

#### Revision History

Revision	Date	Initiator	Change Description
00	2014-5-24	Jackie Yu	1. New Form 2. Replace the 'TRS0333 R2'
01	2014-10-29	Jackie Yu	1. Add charging retention

Prepared by	Checked by	Approver
RD Engineer	RD Manager	SM
XM Hu	Jackie Yu	Vivian Fong
Date: 2014-10-29	Date: 2014-10-29	Date:2014-10-29

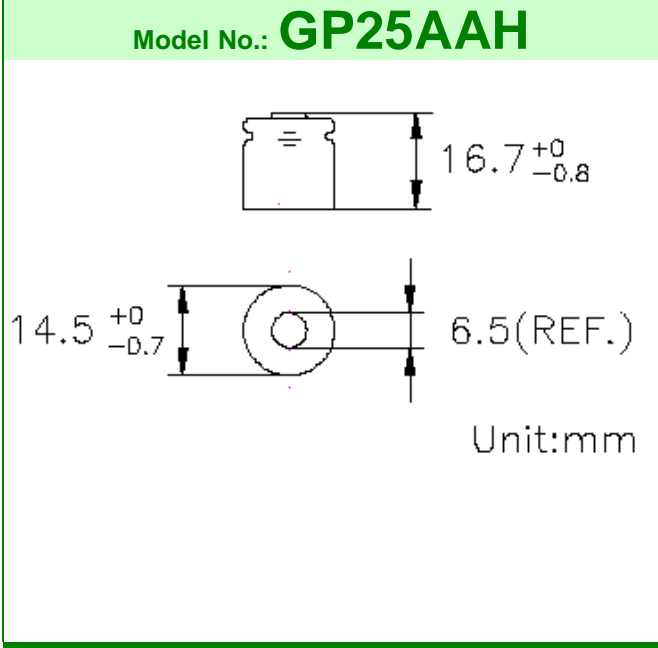
#### GPI International Limited

Gold Peak Building, 8/F, 30 Kwai Wing Road,  
Kwai Chung, New Territories, Hong Kong.  
Tel: (852) 2484 3333 Fax: (852) 24805912  
Email: [gpii@goldpeak.com](mailto:gpii@goldpeak.com)  
Website: <http://www.gpbatteries.com>

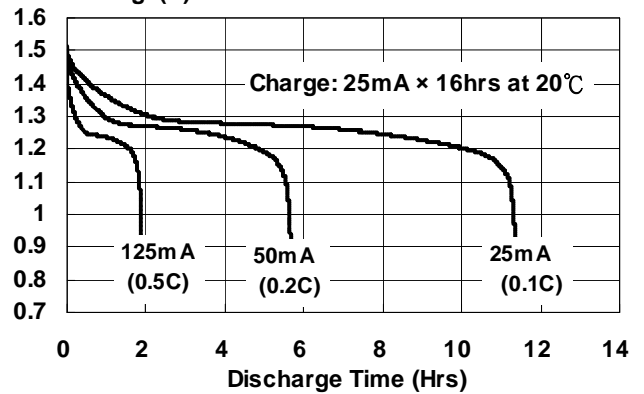
# GP Batteries

## DATA SHEET

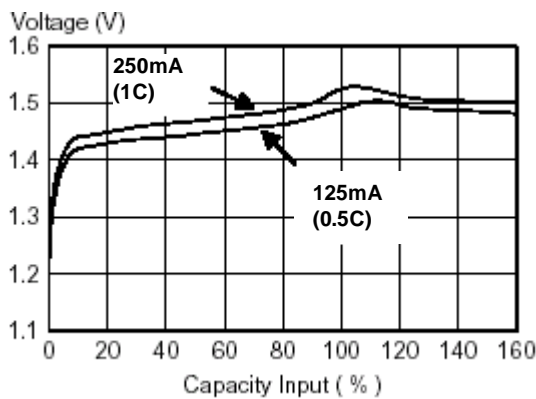
<b>Type</b>	: Rechargeable Nickel Metal Hydride Cylindrical Cell
<b>Nominal Dimension (with Sleeve)</b>	: $\Phi = 14.5\text{mm}$ H = 16.7mm
<b>Applications</b>	: Recommended discharge current 25 to 750mA
<b>Nominal Voltage</b>	: 1.2V
<b>Capacity</b>	: Rated: 250mAh Typical: 270mAh When discharged at 50mA to 1.0V at 20°C
<b>Charging Retention</b>	: 80% of nominal capacity after cell storage at 20°C for 12 months When discharged at 50mA to 1.0V at 20°C
<b>Charging Condition</b>	: 25mA for 16 hrs at 20°C
<b>Fast Charge</b>	: 125mA to 250mA (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 ref. only)
<b>Service Life</b>	: >500 cycles (IEC standard)
<b>Continuous Overcharge</b>	: 25mA maximum current for 1 year. No conspicuous deformation and/or leakage
<b>Weight</b>	: 8.0g
<b>Internal Resistance</b>	: Average 65m $\Omega$ upon fully charged (Max. 80m $\Omega$ ) at 1000Hz
<b>Max. Charging Voltage</b>	: 1.5V at 25mA charging
<b>Ambient Temperature Range</b>	: Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C Discharge : -20 to 50°C Storage : -20 to 35°C



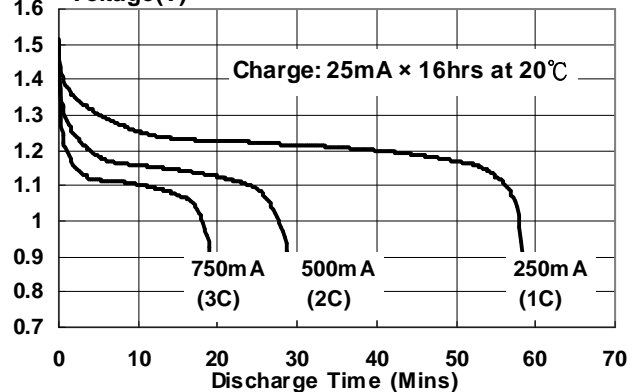
**Low Rate Discharge**  
Voltage(V)



**Fast Charge (Charge Control Required)**



**High Rate Discharge**  
Voltage(V)



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.