

### **Data Sheet**

## **Rechargeable Nickel Metal Hydride Battery**

Model: GP40AAAHCB

### **Revision History**

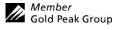
Revision	Date	Initiator	Change Description
00	2014-10-28	DT Yu	New Issue

Prepared by	Checked by	Approver
RD Engineer	RD Manager	SM
DT Yu	Ling Guan	Vivian Fong
Date: 2014-10-28	Date: 2014-10-28	Date: 2014-10-28

### **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

Website: http://www.gpbatteries.com

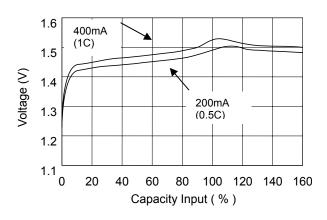




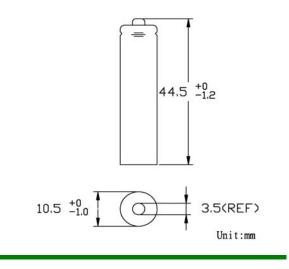
## **DATA SHEET**

Туре	: Rechargeable Nickel Metal		
	Hydride Cylindrical Cell		
Nominal Dimension	: Φ = 10.5mm		
(with Sleeve)	H = 44.5mm		
Applications	: Recommended discharge current		
	40 to 1200mA		
Nominal Voltage	: 1.2V		
Capacity	: Nominal: 400mAh		
	Minimum: 400mAh		
	Typical: 420mAh		
	When discharged at 80mA to		
	1.0V at 20°C		
Charging Condition	: 40mA for 16 hrs at 20°C		
Charging Retention	: 80% of nominal capacity after cell storage		
	at 20℃ for 24months		
	When discharged at 80mA to 1.0V at 20°C		
Fast Charge	: 200mA to 400mA (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 : 105% nominal input		
	(for ref. only)		
Service Life	: >500 cycles (IEC standard)		
Continuous	: 40mA maximum current for 1 year		
Overcharge	No conspicuous deformation and/or		
	leakage		
Weight	:11.5g		
Internal Resistance	: Average 55mΩ upon fully charged		
May Charaina Valtaria	(Range 35– 75mΩ) at 1000Hz		
Max. Charging Voltage	: 1.5V at 40mA charging		
Ambient Temperature	: Standard Charge : 0 to 45°C		
Range	Fast Charging : 10 to 45°C		
	Discharge : -20 to 50°C		
	Storage : -20 to 35°C		

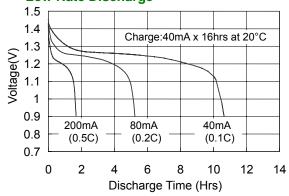
### Fast Charge (Charge control required)



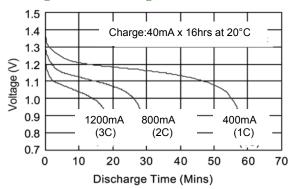
# Model No.: GP40AAAHCB



#### 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.

TRS0824 Rev.00

