

## **Data Sheet**

# Rechargeable Nickel Metal Hydride Battery

Model: GP180AAH

## **Revision History**

Revision	Date	Initiator	Change Description
00	2014-5-24	Jackie Yu	<ol> <li>New Form</li> <li>Replace the PMS2045 R1</li> </ol>
01	2015-03-23	Jackie Yu	Revised Page 2:     Rated capacity and typical     capacity
02	2015-7-30	Jackie Yu	1. Add charging retention

Prepared by	Checked by	Approver
RD Engineer	RD Manager	SM
SY Jiang	Jackie Yu	Vivian Fong
Date: 2015-7-30	Date: 2015-7-30	Date: 2015-7-30

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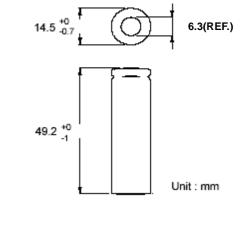
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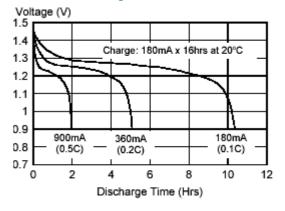
## **DATA SHEET**

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Type :	Rechargeable Nickel Metal	
	Hydride Cylindrical Cell	
	$\Phi$ = 14.5mm	
(with Sleeve)	H = 49.2mm	
Applications :	Recommended discharge current	
	180 to 5400mA	
Nominal Voltage :	1.2V	
Capacity :	Rated capacity: 1800mAh	
	Typical capacity: 1850mAh	
	When discharged at 360mA to	
	1.0V at 20℃	
Charging Condition :	180mA for 16 hrs at 20°C	
Charging Retention	80% of Rated capacity after cell	
	storage at 20°C for 12 months	
	When discharged at 360mA to	
	1.0V at 20℃	
Fast Charge :	900mA to 1800mA (0.5 to 1C)	
	charge termination control	
	recommended control parameters:	
	-∆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)	
Service Life :	>500 cycles (IEC standard)	
Continuous :	180mA maximum current for 1 year.	
Overcharge	No conspicuous deformation and/or	
	leakage	
Weight :	28.0g	
Internal Resistance :	Average 25mΩ upon fully charged	
	(Max. 35mΩ) at 1000Hz	
	1.5V at 180mA charging	
Ambient Temperature :	Standard Charge : 0 to 45℃	
Range	Fast Charging : 10 to 45°C	
	Discharge : -20 to 50°C	
	Storage : -20 to 35°C	
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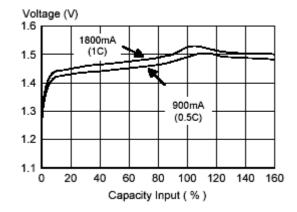
Model No.: GP180AAH



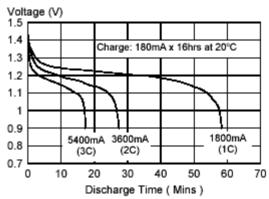
### Low Rate Discharge



## Fast Charge (Charge Control Required )



## **High Rate Discharge**



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