

GP Batteries

Data Sheet

Rechargeable Nickel Metal Hydride Battery

Model: GP180AAH

Revision History

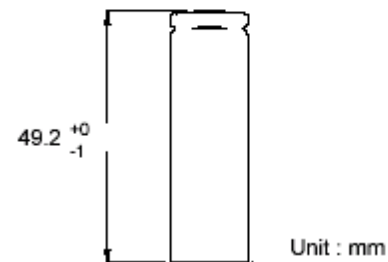
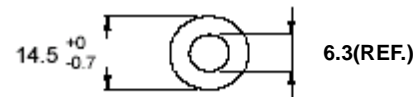
Revision	Date	Initiator	Change Description
00	2014-5-24	Jackie Yu	1. New Form 2. Replace the 'PMS2045 R1'
01	2015-03-23	Jackie Yu	1. Revised Page 2: Rated capacity and typical capacity
02	2015-7-30	Jackie Yu	1. Add charging retention

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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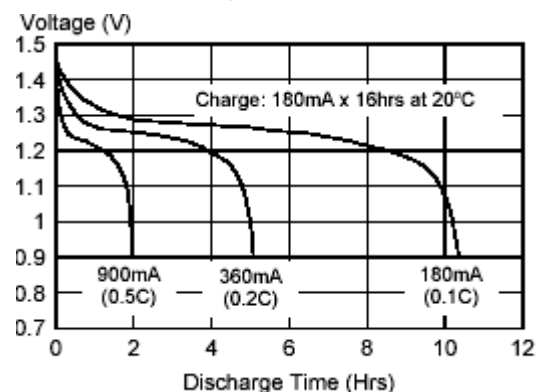
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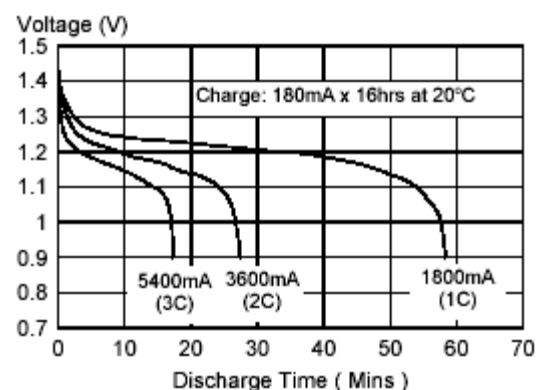


Type	: Rechargeable Nickel Metal Hydride Cylindrical Cell
Nominal Dimension (with Sleeve)	: $\Phi = 14.5\text{mm}$ H = 49.2mm
Applications	: Recommended discharge current 180 to 5400mA
Nominal Voltage	: 1.2V
Capacity	: Rated capacity: 1800mAh Typical capacity: 1850mAh When discharged at 360mA to 1.0V at 20°C
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°C
Fast Charge	: 900mA to 1800mA (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 Overcharge	: 180mA maximum current for 1 year. No conspicuous deformation and/or leakage
Weight	: 28.0g
Internal Resistance	: Average 25m Ω upon fully charged (Max. 35m Ω) at 1000Hz
Max. Charging Voltage	: 1.5V at 180mA 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

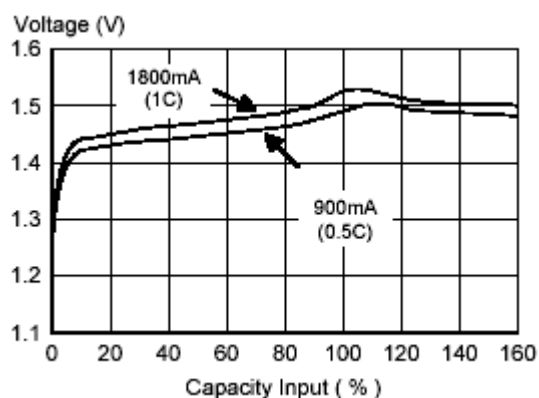
Low Rate Discharge



High Rate Discharge



Fast Charge (Charge Control Required)



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