

GP Batteries

Data Sheet

Rechargeable Nickel Metal Hydride Battery

Model: GP450LAH

Revision History

Revision	Date	Initiator	Change Description
00	2011-03-16	Jackie Yu	To replace ZRS5083, add rated capacity
01	2013-06-11	Jackie Yu	New form
02	2014-05-28	YS Liu	New form

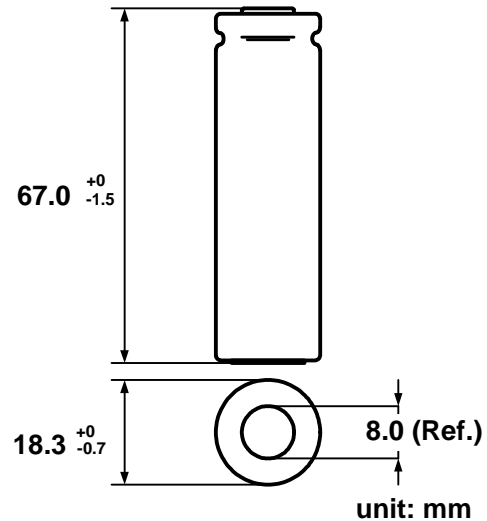
Prepared by	Checked by	Approver
RD Engineer	RD Manager	SM
YS Liu	Jackie Yu	Vivian Fong
Date: 2014-5-28	Date: 2014-5-28	Date: 2014-5-28

GPI International Limited

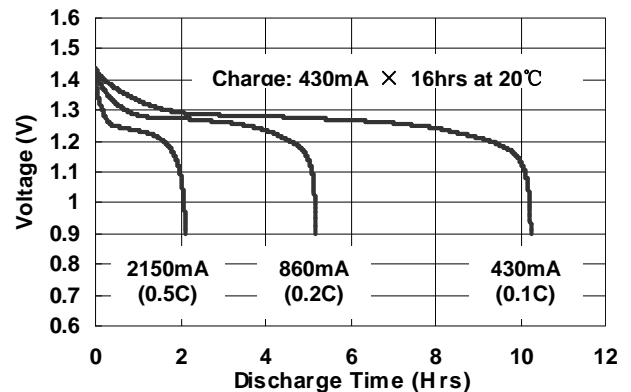
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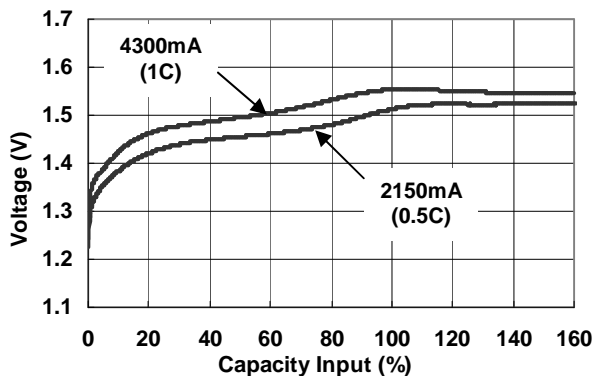
Type	: Rechargeable Nickel Metal Hydride Cylindrical Cell
Nominal Dimension (with Sleeve)	: $\Phi = 18.3\text{mm}$ H = 67.0mm
Applications	: Recommended discharge current: 430mA to 12900mA
Nominal Voltage	: 1.2V
Capacity	: Nominal: 4300mAh Minimum: 4300mAh Typical: 4500mAh When discharged at 860mA to 1.0V at 20°C
Charging Condition	: 430mA for 16hrs at 20°C
Fast Charge	: 2150mA to 4300mAh (0.5C 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	: 430mA maximum current for 1 year No conspicuous deformation and/or no leakage
Weight	: 63.0g
Internal Resistance	: Average 16 m Ω upon fully charged (Max. 25 m Ω) at 1000Hz
Max. Charging Voltage	: 1.5V at 430mA charging
Ambient Temperature Range	: Standard Charging : 0 to 45°C Fast Charging : 10 to 45°C Discharge : -20 to 50°C Storage : -20 to 35°C Storage (1 week) : -20 to 60°C



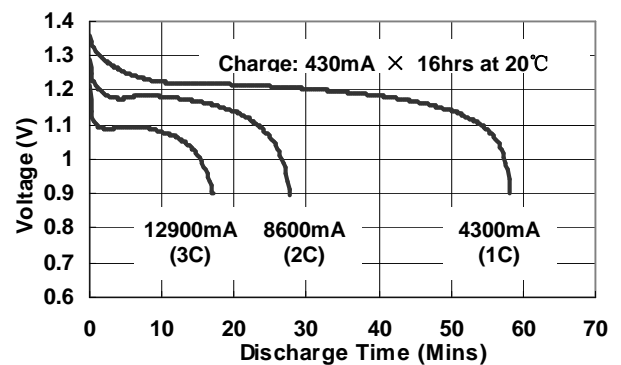
Low Rate Discharge



Fast Charge (Charge Control Required)



High Rate Discharge



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