

GP Batteries

Data Sheet

Rechargeable Nickel Metal Hydride Battery

Model: GP65AAAHC

Revision History

Revision	Date	Initiator	Change Description
01	2014-10-28	Dong Zhou	1. New form

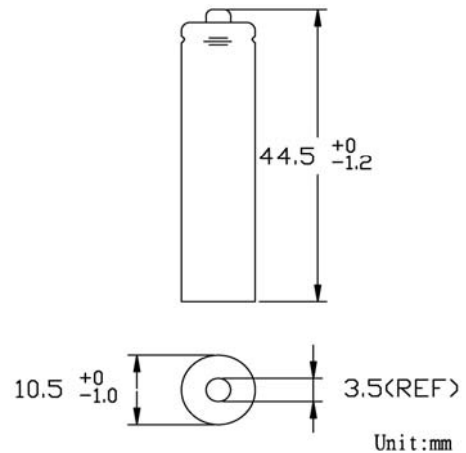
Prepared by	Checked by	Approver
RD Engineer	RD Manager	SM
Dong Zhou	Ling Guan	Vivian Fong
Date: 2014-10-28	Date: 2014-10-28	Date:2014-10-28

GPI International Limited

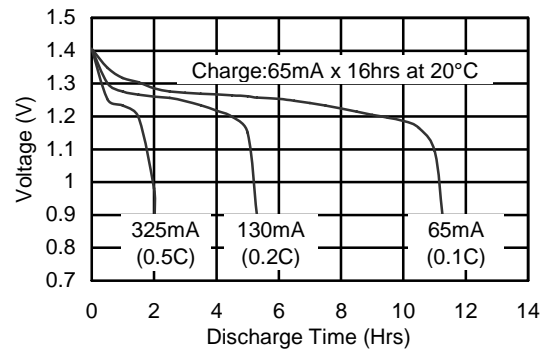
Gold Peak Building, 8/F, 30 Kwai Wing Road,
Kwai Chung, New Territories, Hong Kong.
Tel: (852) 2484 3333 Fax: (852) 24805912
Email: gpii@goldpeak.com
Website: <http://www.gpbatteries.com>

Model No.: GP65AAHC

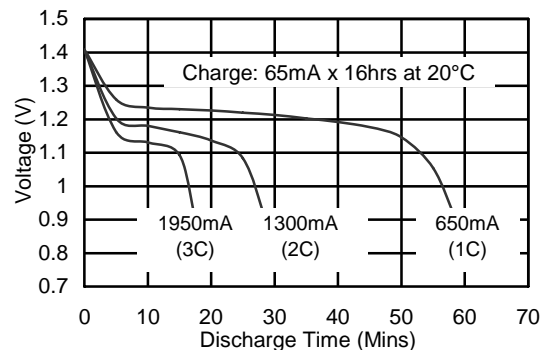
Type	: Rechargeable Nickel Metal Hydride Cylindrical Cell
Nominal Dimension (with Sleeve)	: $\Phi = 10.5\text{mm}$ H = 44.5mm
Applications	: Recommended discharge current 65 to 1950mA
Nominal Voltage	: 1.2V
Capacity	: Nominal: 650mAh Minimum: 650mAh Typical: 670mAh When discharged at 130mA to 1.0V at 20°C
Charging Condition	: 65mA for 16 hrs at 20°C
Charging Retention	: 80% of nominal capacity after cell storage at 20°C for 12 months When discharged at 130mA to 1.0V at 20°C
Fast Charge	: 325mA to 650mA (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	: 65mA maximum current for 1 year. No conspicuous deformation and/or leakage
Weight	: 13.0g
Internal Resistance	: Average 36m Ω upon fully charged (Max. 50m Ω) at 1000Hz
Max. Charging Voltage	: 1.5V at 65mA 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



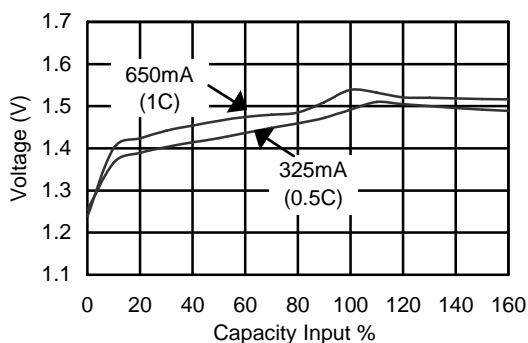
Low Rate Discharge



High Rate Discharge



Fast Charge (Charge Control Required)



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