

GP Batteries

Data Sheet

Rechargeable Nickel Metal Hydride Battery

Model: GP15R8HB

Revision History

Revision	Date	Initiator	Change Description
03	2014-10-28	DT Yu	Change Charge Retention from "80% of nominal capacity after cell storage at 20°C for 12months" to "80% of nominal capacity after cell storage at 20°C for 24months"

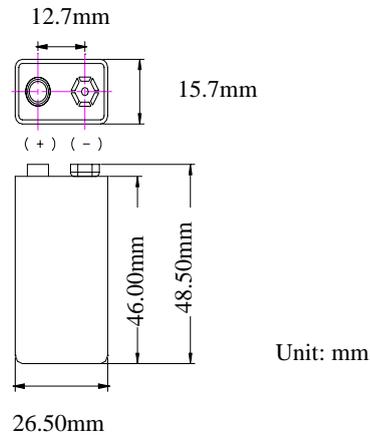
Prepared by	Checked by	Approver
RD Engineer	RD Manager	SM
DT Yu	Ling Guan	Vivian Fong
Date: 2014-10-28	Date: 2014-10-28	Date:2014-10-28

GPI International Limited

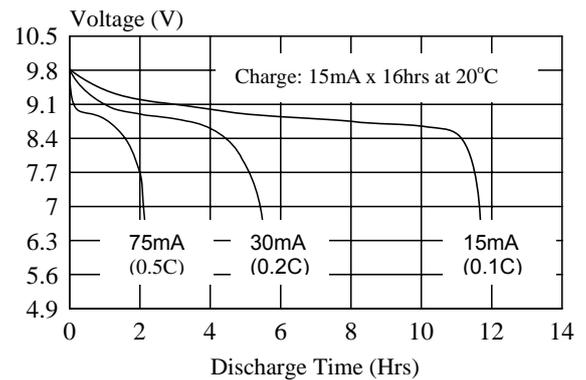
Gold Peak Building, 8/F, 30 Kwai Wing Road,
Kwai Chung, New Territories, Hong Kong.
Tel: (852) 2484 3333 Fax: (852) 24805912
Email: gpii@goldpeak.com
Website: <http://www.gpbatteries.com>

Model No.: GP15R8HB

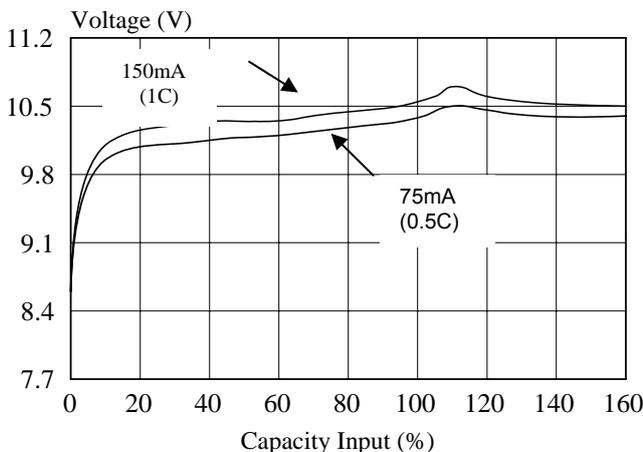
Type	: Rechargeable Nickel Metal Hydride Cylindrical Cell
Nominal Dimension (with Sleeve)	: 15.7mm(l) x 26.5mm(w) x 48.5mm(h)
Applications	: Recommended discharge current 15 to 450mA
Nominal Voltage	: 8.4V
Capacity	: Nominal: 150mAh Minimum: 150mAh Typical: 155mAh When discharged at 30mA to 7.0V at 20°C
Charging Condition	: 15mA for 16 hrs at 20°C
Charging Retention	: 80% of nominal capacity after cell storage at 20°C for 24months When discharged at 30mA to 7.0V at 20°C
Fast Charge	: 75mA to 150mA (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	: >1000 cycles (IEC standard)
Continuous Overcharge	: 15mA maximum current for 1 year. No conspicuous deformation and/or leakage
Weight	: 32.0g
Internal Resistance	: Maximum 2000mΩ upon fully charged at 1000Hz
Max. Charging Voltage	: 12.0V at 15mA 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



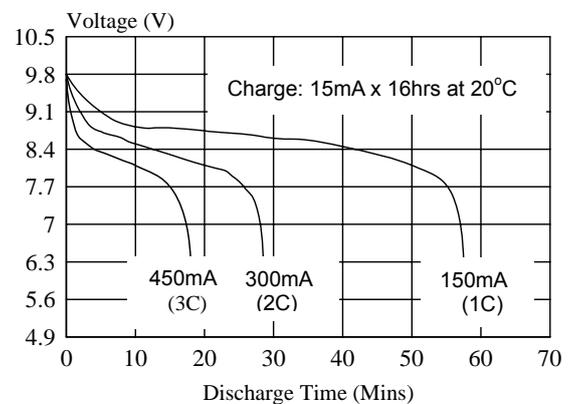
Low Rate Discharge



Fast Charge (Charge control required)



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.