

# GP Batteries

## Data Sheet

### Rechargeable Nickel Metal Hydride Battery

Model: GP900DH

#### Revision History

Revision	Date	Initiator	Change Description
00	2013-8-1	Jackie Yu	To replace ZRS1125
01	2015-3-23	YS Liu	1.New Form 2.Change capacity remark 3.Add charge retention

Prepared by	Checked by	Approver
RD Engineer	RD Manager	SM
YS Liu	JP Zou	Vivian Fong
Date: 2015-3-23	Date: 2015-3-23	Date: 2015-3-23

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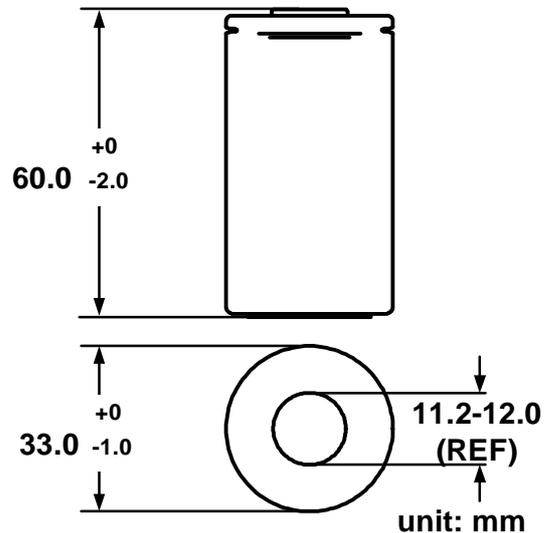
Tel: (852) 2484 3333 Fax: (852) 24805912

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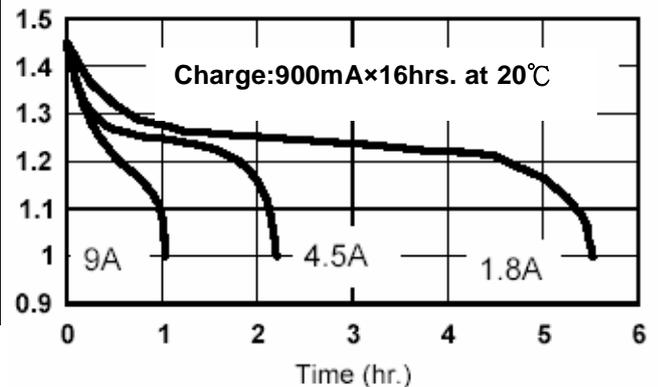
Website: <http://www.gpbatteries.com>

Model No.: **GP900DH**

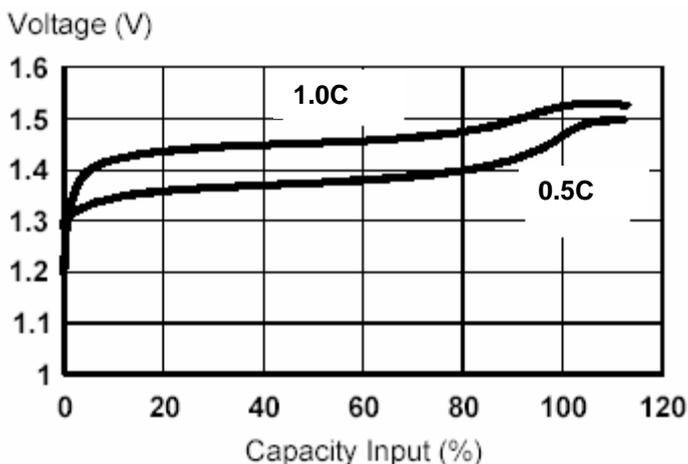
Type	: Rechargeable Nickel Metal Hydride Cylindrical Cell
Nominal Dimension (with Sleeve)	: $\Phi = 33.0\text{mm}$ H = 60.0mm
Applications	: Recommended discharge current 1800mA to 45A(continuous) (momentary) 120A
Nominal Voltage	: 1.2V
Capacity	: Rated: 9000mAh Typical: 9225mAh When discharged at 1800mA to 1.0V at 20°C
Charging Condition	: 900mA for 16hrs at 20°C
Fast Charge	: 4.5A to 9A (0.5 to 1.0C) charge termination control recommended control parameters: - $\Delta V$ : 0-5mV DT/dt : 0.8°C/min TCO : 50 – 55°C Timer : 105% nominal input (secondary)
Charge Retention	: 50% of nominal capacity after cell storage at 20°C for 12months When discharged at 1.8A to 1.0V at 20°C
Service Life	: > 500 cycles (IEC standard)
Continuous Overcharge	: 900mA maximum current for 1 year. No conspicuous deformation and/or Leakage
Weight	: 170g
Internal Resistance	: Average 6m $\Omega$ upon fully charged (Range 4-8m $\Omega$ ) at 1000Hz
Max. Charging Voltage	: 1.5V at 900mA charging
Ambient Temperature Range	: Standard Charge : 0 to 40°C Fast Charging : 10 to 40°C Discharge : -20 to 50°C Storage : -20 to 35°C Storage (1 week) : -20 to 60°C



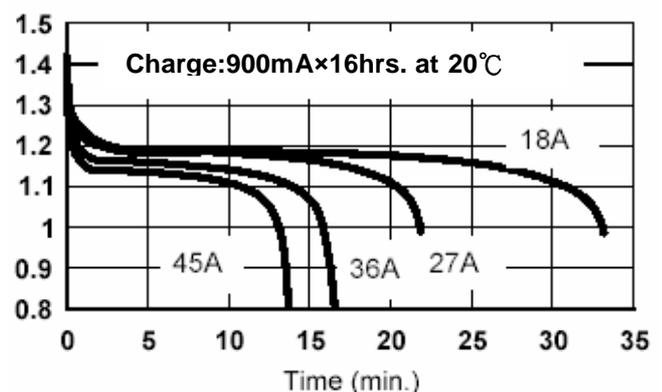
Voltage (V) **Low Rate Discharge**



**Fast Charge (Charge Control Required)**



Voltage (V) **High Rate Discharge**



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