

DATA SHEET

Unit: mm

: Rechargeable Nickel Metal **Type** Hydride Cylindrical Cell

Nominal Dimension $\Phi = 14.5 \text{mm}$ (with Sleeve) H = 50.5 mm

Applications : Recommended discharge current

250 to 7500mA

Nominal Voltage : 1.2V

: Nominal: 2500mAh Capacity

Minimum: 2500mAh Typical: 2600mAh

When discharged at 500mA to

1.0V at 20°C

Charging Condition : 250mA for 16 hrs at 20°C

Fast Charge : 1250mA to 2500mA (0.5 to 1C) charge termination control

recommended control parameters:

: 0-5mV -ΔV

DT/dt : 0.8°C/min (0.5 to 0.9C)

0.8 - 1°C/min (1C)

TCO : 45 - 50°C

: 100% nominal input Timer

(for ref. only)

Service Life : >500 cycles (IEC standard)

Continuous : 250mA maximum current for 1 year. Overcharge No conspicuous deformation and/or

leakage

Weight : 31.5g

Internal Resistance : Average $18m\Omega$ upon fully charged

(Range 14 - $28m\Omega$) at 1000Hz

Max. Charging

Voltage

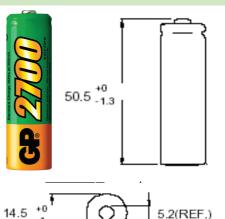
Ambient Temperature : Standard Charge : 0 to 45°C

Range Fast Charging: 10 to 45°C Discharge: -20 to 50°C

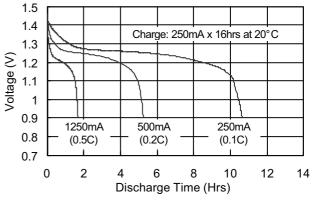
Storage: -20 to 35°C

: 1.5V at 250mA charging

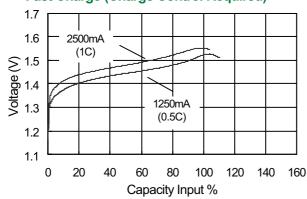
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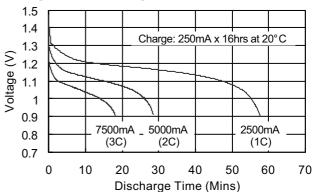




Fast Charge (Charge Control Required)



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.

www.gpbatteries.com.hk

CRS3868 rev.01





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IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted if any item is not applicable or no information is available, the space					
GP270AAHC Section I Information of M	must be marked to indicate that.					
Manufacturer's Name	ection I – Information of Manufacturer nufacturer's Name Emergency Telephone Number					
GPI International Ltd.	Emergency rerepnone Number					
Address (Number, Street, City State, and ZIP	Telephone Number for information					
Code) 8/F GP Building, 30 Kwai Wing Road,	852-2484-3333					
	Date of prepared and revisio n					
Kwai Chung, N.T. H.K.	Mar., 03, 2006 Signature of Preparer (optional)					
	Signature of Freparer (optional)					
Section II - Hazardous Ingre	edients / Identity Information					
Hazardous Components:						
Description:	Approximate % of total weight					
Mercury	<5ppm					
Lead	Nil					
Cadmium						
	Nil					
Ni(OH)2 (Nickel Hydroxide)	32 Wt%					
30% KOH Solution (Potassium Hydroxide)	8 Wt%					
Castian III Dhysical / Chamie	al Characteristics					
Section III - Physical / Chemica	ecific Gravity (H ₂ O=1)					
N.A.	N.A.					
	elting Point					
N.A. Vapor Density (AIR=1) Ev.	N.A. aporation Rate (Butyl Acetate)					
N.A.	N.A.					
Solubility in Water						
N.A. Appearance and Odor						
1 Appending and Suci	Cylindrical Shape, odorless					
Section IV - Hazard Classifi	cation					
Classification						
N.A.						





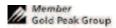
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Section V – Reactivity Data Stability Unstable Conditions to Avoid Stable X Incompatibility (Materials to Avoid) Hazardous Decomposition or Byproducts Hazardous May Occur Conditions to Avoid Polymerization Will Not Occur X Section VI - Health Hazard Data Route(s) of Skin? Ingestion? Entry N.A. N.A. N.A. Health Hazard (Acute and Chronic) / Toxiclogical information In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte. In contact with electrolyte can cause severe irritation and chemical burns Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs. Section VII - First Aid Measures First Aid Procedures If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately. If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician. If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area. Section VIII - Fire and Explosion Hazard Data Flash Point (Method Used) Ignition Temp. Flammable Limits LEL UEL N.A N.A. N.A. N.A. Extinguishing Media Carbon Dioxide, Dry Chemical or Foam extinguishers Special Fire Fighting Procedures N.A. Unusual Fire and Explosion Hazards Do not dispose of battery in fire - may explode. Do not short-circuit battery - may cause burns.

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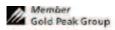
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Section IX	 Accidental Release or S 	Spillage	
Steps to Be T	aken in Case Material is Released	or Spilled	
Batter	ies that are leakage should be handled with	rubber gloves.	
	direct contact with electrolyte.		
Wear	protective clothing and a positive pressure	Self-Contained Breathing Apparatus (SCBA).	
0 " "			
	 Handling and Storage and storage advice 		
_	eries should be handled and stored carefully	to avaid short aircuits	
	•	al objects to be mixed with stored batteries.	
	er disassemble a battery.		
Do 1	not breathe cell vapors or touch internal man	terial with bare hands.	
Kee	p batteries between -30°C and 35°C for pro	long storage.	
Section XI	– Exposure Controls / Pe	rson Protection	
Occupational Ex	posure Limits: LTEP	STEP	
	N.A.	N.A.	
Respiratory Prot	ection (Specify Type)		
	N.A.		
Ventilation	Local Exhausts	Special	
	N.A. Mechanical (General)	N.A.	
	N.A.	Other N.A.	
Protective Glove	es .	Eye Protection	
	N.A.	N.A.	
Other Protective	Clothing or Equipment	•	
	N.A.		
Work / Hygienic			
	N.A.		
Castian VI	L Coological Information		
Section XI	I – Ecological Information		
	N.A.		
Section XI	II – Disposal Method		
Disnose o	f batteries according to government regulat	ions	
Dispose 0	. carrettes according to government legular		

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Section XIV – Transportation Information

GP batteries are considered to be "Dry cell" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA) and International Maritime Dangerous Goods Regulations (IMDG). The only DOT requirement for shipping these batteries is special provision 130 which states: "Batteries, dry are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (For example, by the effective insulation of exposed terminals). As of 1/1/97 IATA requires that batteries being transported by air must be protected from short-circuiting and protected from movement that could lead to short-circuiting.

Section XV - Regulatory Information

Special requirement be according to the local regulatories.

Section XVI – Other Information

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

Section XVII - Measures for fire extinction

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

