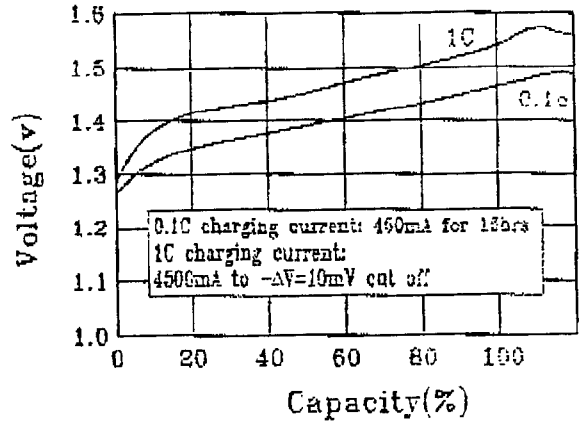
PH-C4500H NiMH 4500mAh NiMH C 4500mAh

Ni-MH rechargeable cylindrical cell (Data Sheet) 4500 mAh

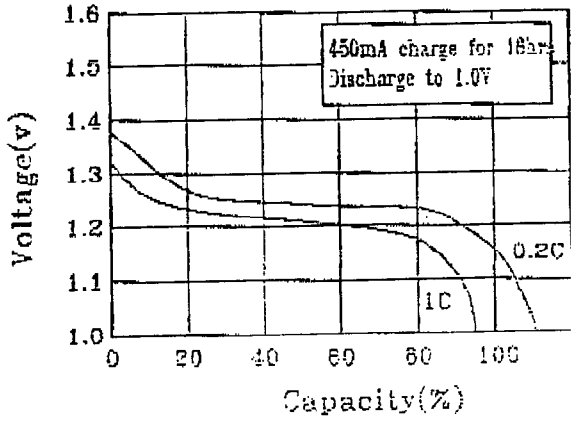
Specification

Nominal Voltage			1.2V
Dimensions	Diameter		25.2±0.2mm
	Height		50.0±0.3mm
	Apx. Weight		80g
0.2C Discharge Capacity	Typical		4550mAh
	Nominal		4500mAh
Typical Internal Impedance			Less than 15mΩ
Charge	Standard		450mA for 16 hrs
	Fast		4500mA for about 75min
Life expectancy			500 cycles
Operating Temperature	Charge	Standard	0°c to 40°c
		Fast	10°c to 40°c
	Discharge		-10°c to 50°c
	Storage	<1 year	-10°c to 30°c
		<3 months	-10°c to 40°c

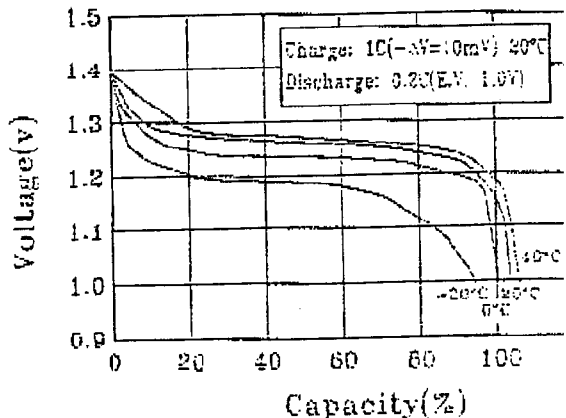
CHARGE CHARACTERISTICS



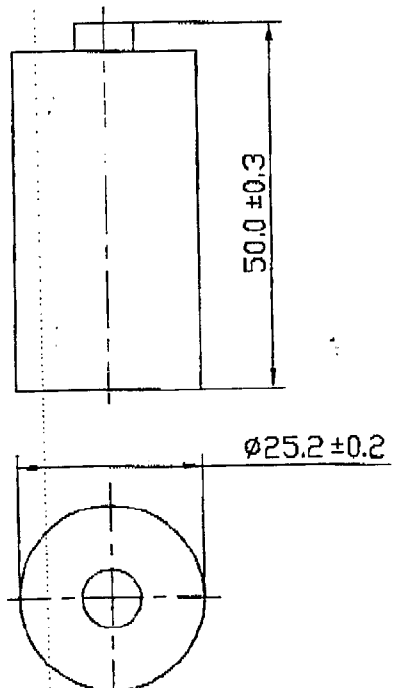
DISCHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS AT DIFFERENT TEMPERATURES



(CELL DIMENSIONS)



1. Preface

This specification is suitable for the performance of the Ni-MH rechargeable battery.

2. Model

PH-C4500H

3. Appearance

There shall be no such defects as discoloration, electrolyte leakege or no voltage.

4. Nominal specification

Desription			Specification
Model			PH-C4500H
Size			C
Dimensions	Diameter(mm)		25.2±0.2
	Height(mm)		50.0±0.3
	Weight(g)		Approx.80g
Nominal Voltage(V)			1.2
Internal Impedance(mΩ)			≤15
Discharge Cut-off Voltage			1.0V
Ambient temperature	Charge	standard	0℃ to 40℃
		Rapid	10℃ to 40℃
	Discharge		-10℃ to 50℃
	Storage	<1 year	-10℃ to 30℃
		<3 months	-10℃ to 40℃

5.Characteristics

Unless otherwise specified, the standard range of atmospheric conditions for marking as follows:

Ambient Temperature 20±5℃

Relative Humidity 65±20%

Atmospheric Pressure 960±100mbar

Voltmeters and ammeters to be used in test shall be of grade 0.5 over.

Test Item		Condition	Specification
1. Charge	Standard	Charge at 0.1C for 16 hours	
	Rapid	Charge at 1C to - △=10mV/cell	
2. Standard Discharge		At 0.2C to 1.0V/cell	
3. Discharge Cut-off Voltage			1.0V
4. Capacity	Nominal	Standard Charge/Discharge	4500mAh
	Typical	Standard Charge/Discharge	4550mAh
5. Internal resistance		After fully charge,rest 1 hour, mcasured at 1000Hz	≤15mΩ
6. Cycle life		Standard charge then rest 1 hour, discharge(1C) to 1.0V/cell, rest 30min after discharge	Capacity Retention ≥80% After 500 cycles
7. Self-Discharge		The charged battery is stored for 28 days at 20℃±5℃. And the discharge time is measured at standard discharge	≥180minutes
8. High Temperature Test		Store at 40℃、50℃、60℃ for 2 hours then Charge/Discharge	No leakage
9. Low Temperature Test		Store at 0℃ for 2 hours then Charge/Discharge	No leakage
10. Short Circuit Test		Short circuit after fully charge	No explode
11. Drop Test		Free fall on the concerte from 3 meters after fully charged	No leakage No short-circuit