UE-PH30H-40



1. Preface

This specification is suitable for the performance of the **UE-PH30H-40** Ni-MH button rechargeable battery.

2. Model

UE-PH30H-40

3. Appearance

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

4. Nominal specification

	Descr	ription	Specification	
Model			UE-PH30H-40	
Size			PH30K	
Dimensions	Diameter (mm)		11.8max	
	Height (mm)		5.4±0.4	
	Weight(g)		Approx 2.5g	
Nominal Voltage(V)			1.2 V	
Nominal capacity (mAh)			40	
Internal Impedance(mΩ)			≤1500	
Discharge Cut-off Voltage			1.0V	
Ambient temperature	Charge	standard	0°C to 40°C	
		quick	10℃ to 40℃	
	Discharge		-10°C to 50°C	
	Storage	<1 year	-10°C to 30°C	
		<3 months	-10°C to 40°C	

5. Characteristics

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

· Ambient Temperature 20±5℃

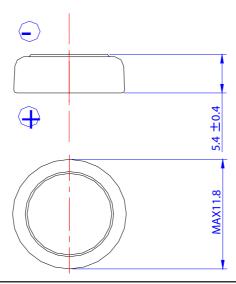
· Relative Humidity $65 \pm 20\%$

 \cdot Atmospheric Pressure 960 \pm 100mbar

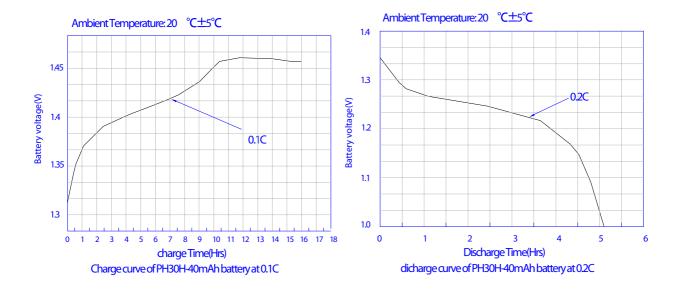
 \cdot Voltmeters and ammeters to be used in test shall be of grade 0.5 over

Test Item		Condition	Specification	
1. Charge	Standard	Charge at 0.1C ₅ for 16 hours		
	Quick	Charge at 0.2C ₅ for 7 hours		
2. Standard Discharge		Discharge At 0.2C ₅ to 3.0V		
3. Discharge Cut-off Voltage			1.0V	
4. Capacity	Nominal	Standard Charge/Discharge	40mAh	
	Typical	Standard Charge/Discharge	45mAh	
5. Internal resistance		After charge at 0.2C ₅ to for 2.5 hours,	, ≤1500mΩ	
		rest 5 hours, measured at 1000Hz		
6. Cycle life		Otan dand by JEC	Capacity Retention ≥	
		Standard by IEC	65% After 500 cycles	
7. Self-Discharge		The charged battery is stored for 28 days at 20 °C \pm 5 °C . And the discharge time is measured at standard discharge	≥180minutes	
8. High Temperature Test		Store at 50°C for 2 hours then at 0.2C Discharge, first, charge at 0.1C for 16h at 20°C±5°C.	≥270minutes	
9. Low Temperate	ure Test	Store at 0°C for 2 hours then at 0.2C Discharge, charge at 0.1C 16h at 20 °C \pm 5°C first.	No leakage	
10. Short Circuit	Test	Short circuit after fully charge	No explode	
11. Drop Test		Free fall on the concrete from 1 meter using to 3 axis after fully charged	No leakage No short-circuit No Creak of sleeve	

6. Physical



7. Charge / discharge curve (charge at 0.1C, discharge at 0.2C)



8. Caution

- 8.1 Please charge battery follow the instruction of item 5.1, charge current cannot be more than the limit of item 5.1. Overcharge with high current is harmful, it may cause battery deformation, leak or even explosion.
- 8.2 Do not discharge battery to the condition of lower voltage than 1.0V. Over discharge may decrease the cycle life and may cause battery deformation, leak or explosion.