UE-PH15H-20



1. Preface

This specification is suitable for the performance of the **UE-PH15H-20** Ni-MH button rechargeable battery.

2. Model

UE-PH15H-20

3. Appearance

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

4. Nominal specification

	Descr	iption	Specification	
Model			UE-PH15H-20mAh	
Size			PH15K	
Dimensions	Diameter (mm)		φ11.5 max	
	Height (mm)		3.2 max	
	Weight(g)		Approx 1.3g	
Nominal Voltage(V)			1.2 V	
Nominal capacity (mAh)			20	
Discharge Cut-off Voltage			1.0V	
Ambient temperature	Charge	standard	0°C to 40°C	
		quick	10℃ to 40℃	
	Discharge		-10℃ to 50℃	
	Storage	<1 year	-10℃ to 30℃	
		<3 months	-10°C to 40°C	

5. Characteristics

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

· Ambient Temperature $20\pm5^{\circ}$ C

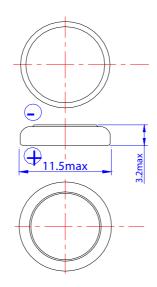
· Relative Humidity 65 \pm 20%

 \cdot Atmospheric Pressure 960 \pm 100mbar

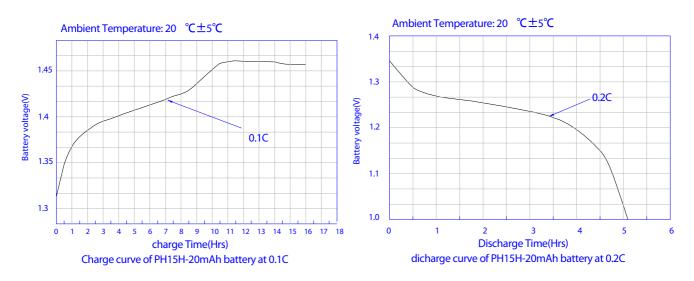
 \cdot Voltmeters and ammeters to be used in test shall be of grade 0.5 over

Test I	tem	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 1.0V		
3. Discharge Cut-off Voltage			1.0V	
4. Capacity	Nominal	Standard Charge/Discharge	20mAh	
	Typical	Standard Charge/Discharge	22mAh	
5. Cycle life			Capacity Retention \geq	
		Standard by IEC	65% After 500 cycles	
6. 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	
7. High Temperat	ure Test	Store at 50°Cfor 2 hours then at 0.2C Discharge, first, charge at 0.1C for 16h at 20°C±5°C.	≥270minutes	
8. Low Temperatu	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	
9. Short Circuit Te	est	Short circuit after fully charge	No explode	
10. Drop Test		Free fall on the concrete from 1 meter using to 3 axis after fully charged	No leakage No short-circuit	

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.