

# POWER-XTRA

Model : Power-Xtra 55602403033 3V15H 3.6 V 20 Mah Şarjlı Backup Pili (Soketli) Ver: A0 NO: 900.600.503.281

## Ni-MH Battery Spec

Model: PX-12H3B6H

Cell Configuration: \_\_\_\_\_

Customer P/N: \_\_\_\_\_

Nominal Voltage: 3.6V

Capacity: 20mAh

Draft	Checking	Approved	Customer Confirmation
Dora			

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## Revision History

Revision	Date	Editor	Contents
A0	2019-03-07	Dora	Draft

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## 1. Preface

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

## 2. Model

PX-12H3B6H

## 3. Appearance

There shall be no such defects as deformation, flaw, stain, discoloration or electrolyte leakage.

## 4. Nominal specification

Description		Specification	
Model		PX-12H3B6H	
Size		12H	
Dimensions	Diameter/ (mm)	13.0±0.5mm	
	Height/ (mm)	36.0±0.8mm	
	Plug/	JST SHR-02	
	Wire/	67±3mm	
	Weight/ (g)	Approx. 5.1g	
Nominal Voltage (V)		3.6	
Nominal capacity (mAh)		20	
Discharge Cut-off Voltage		1.0V	
Ambient 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
		The relative humidity should keep with in 65±20%	

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## 5. Characteristics

Unless otherwise specified, test: should be done within one month of delivery under the following conditions:

Ambient temperature : 20±5°C

Relative humidity : 65±20%

Atmospheric pressure : 960±100mbar

Test item		Condition	Specification
1. Charge	Standard	Charge at 0.1C for 16 hours	0°C to 40°C
	Fast	Charge at 0.2C for 5.25 hours	10°C to 40°C
2. Discharge		At 0.2C to 1.0V	≥100%
3. Capacity ( mAh )	Minimum	Standard charge/discharge	≥300minutes
	Typical	Standard charge/discharge	≥300minutes
4. Self-Discharge		The charged battery is stored for 28 days at 20°C ±5 °C . And the discharge time is measured at standard discharge	≥180minutes
5. Hight Rate Discharge		Standard charge 1hour rest Before Discharge by 1C to 1.0V	≥58minutes
6. Overcharge		0.1C charger 28 days	No leakage
7. Charge Retention		Standard charge storage:12moths Standard Discharge	Capacity retention ≥60% after 500cycle

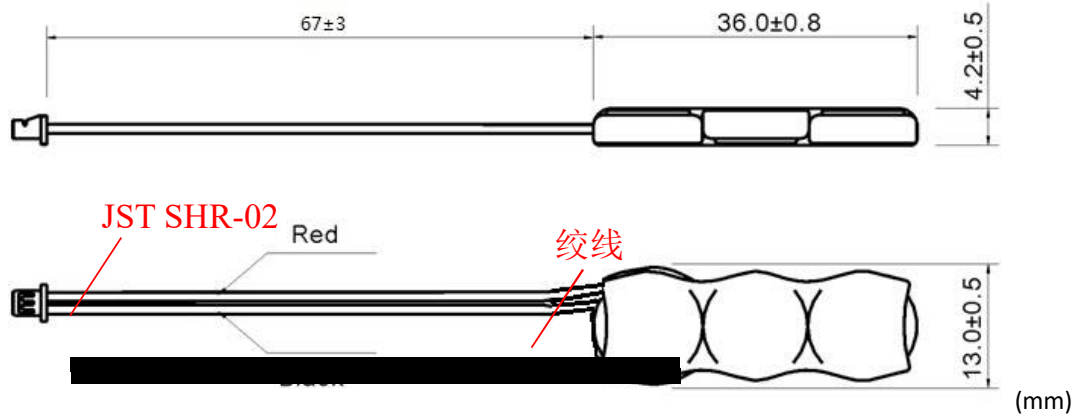
8. Leakage Test		Standard charge stand for 14days		No leakage
9. High temperature test		Store at 40°C、 50°C、 60°C for 2 hours then charge/discharge		No leakage
10. Low temperature test		Store at 0°C for 2 hours then charge/discharge		No leakage
11. Short circuit test		Short circuit after fully charge		No explode
12. Drop test		Free fall on the concrete from 1 meters after fully charged		No leakage No short-circuit
Cycle life	Charge	Rest	Discharge	Cycles 1 to 50 shall be repeated until the discharge duration on any 50thcycle becomes Less than 3h
1	0.1C for 16h	0	0.25C for 2h20min	
2~48	0.25C for 3h10min	0	0.25C for 2h20min	
49	0.25C for 3h10min	0	0.2C to 1.0V	
50	0.1C for 16h	1~4h	0.2C to 1.0V	

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## 6. Dimensions



PVC: JST SHR-02\*28AWG,



### 6.1. Drawing of Label

Ni-MH 3.6V 20mAh



### 6.1. Drawing Packing



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## 7. Cautions in use

To ensure proper use of the battery please read the manual carefully before using it. Handling

Do not expose to, dispose of the battery in fire.

Do not put the battery in a charger or equipment with wrong terminals connected. .

Avoid shorting the battery.

Avoid excessive physical shock or vibration.

Do not disassemble or deform the battery.

Do not immerse in water.

Do not use the battery mixed with other different make, type, or model batteries.

Keep out of the reach of children.

### 1. Storage

Cycle(charge and discharge)the battery every 6-9month to maintain cell/battery performance ,When being stored for an extended period of time.

Store the battery in a cool, dry and well-ventilated area.

### 2. Disposal

Regulations vary for different countries.

Dispose of in accordance with local regulations.

## 8. Note

Any other items which are not covered in this specification shall be agreed by both parties.