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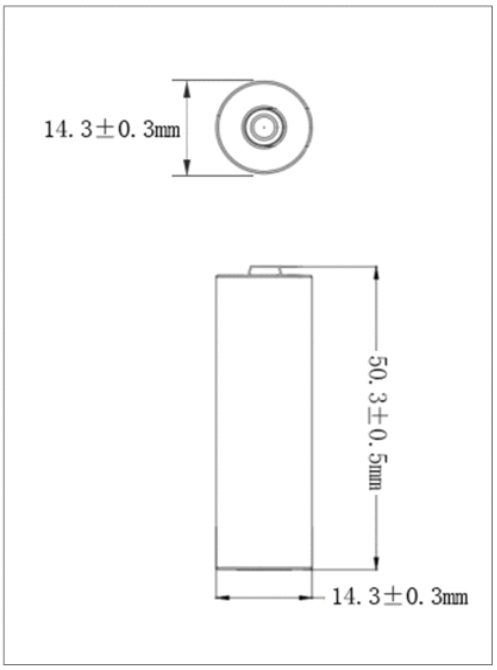
XTAR AA 1.5V 3960 Rechargeable Li-ion Battery

Specifications	
Cell Capacity:	3960mWh
Nominal Capacity:	2500mAh (3750mWh)
Minimum Capacity :	2450mAh
Nominal Voltage:	1.5±0.05V
Discharge Cut-off Voltage:	0.8V
Maximum Discharge Current:	3.0A
Cycle Life:	1500+
Charging Voltage:	4.7-5.7V
Charging Current:	0.45±0.05A
Protected:	Yes
Positive Pole:	Button Top
With Indicator:	Yes
Operating Temperature:	-20-60°C
Charging Temperature:	0-45°C
Storage Temperature:	-10-45°C (Recommended at 25±5°C)
Net Weight:	＜21g
Size:	Φ14.3±0.3mm x H50.3±0.5mm



Touch the Positive Terminal to Check Battery Level

1.5V Max 3A Discharge

2.5H Fast Charging

Table of Relationship between LED Flashing Times and Battery Cell Capacity

Battery cell power	The number of LED light on times
0~20%	1
20~40%	2
60~80%	3
80~100%	4

Battery LED Indicator Status Table

Battery Status	LED Indicator Status
In the charging	LED 1Hz flash
Charge complete	LED on
In the discharging	LED off
Load short circuit	LED 10Hz flash
Charging status - battery not connected	LED high speed flash

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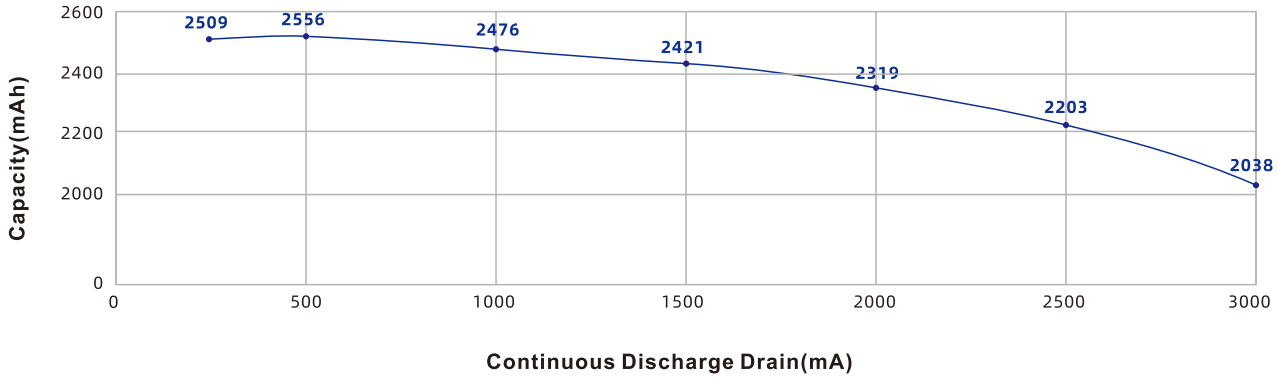
Typical service output (new battery, at 20±5℃)			
Load	**Conditions**	**End Voltage**	**Time**
43Ω	4h/d	1.05V	17days
24Ω	15s/m,8h/d	1.05V	5days
3.9Ω	1h/d	1.05V	6days

Test Name	Discharge Performance Test						
Test Condition	Tests are carried out under the temperature of 20±5°C						
Test Current(mA)	250	500	1000	1500	2000	2500	3000
Measured Capacit(mAh)	2509	2556	2476	2421	2319	2203	2038
Measured Energy(mWh)	3592	3644	3548	3427	3273	3113	2894

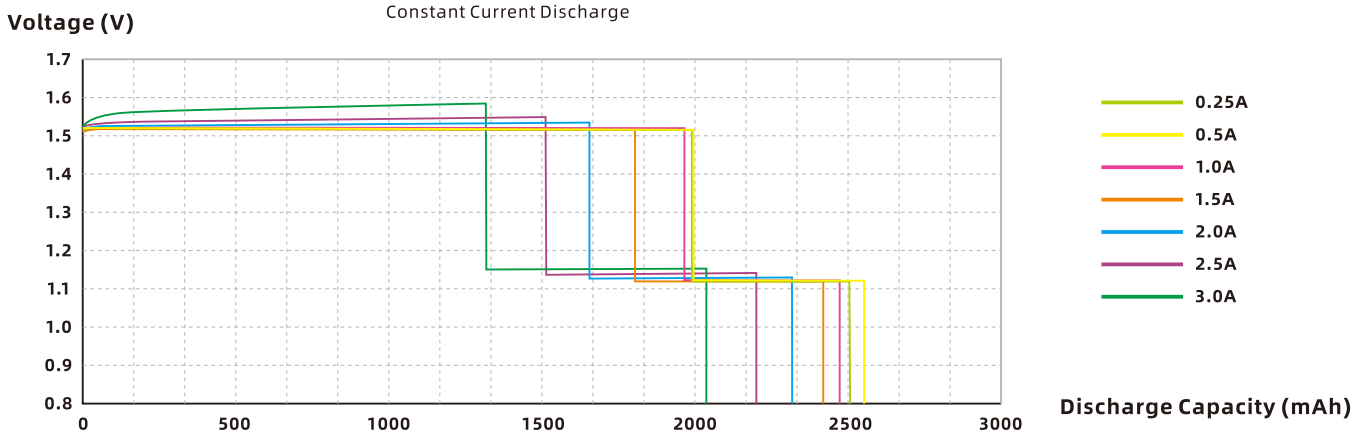
Milliamp-Hours Capacity

Constant Current Discharge to 0.8 Volts



Discharge Profile

Constant Current Discharge



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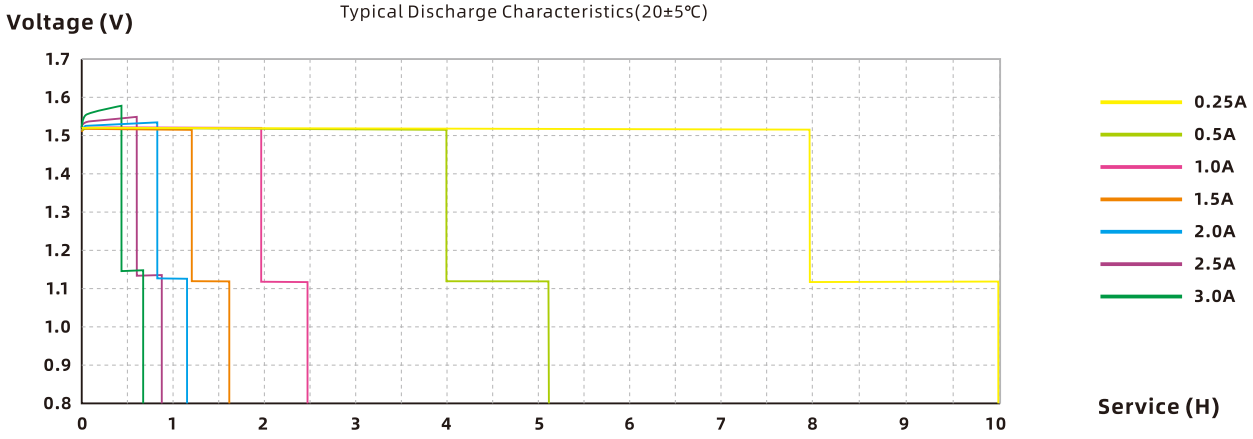
Constant Output Performance

Typical Discharge Characteristics(20±5℃)



Application Tests

Smart Door Lock

300mA 1min/day, Standby 50μA, 4xBatt.s

Wireless Microphone Transmitter

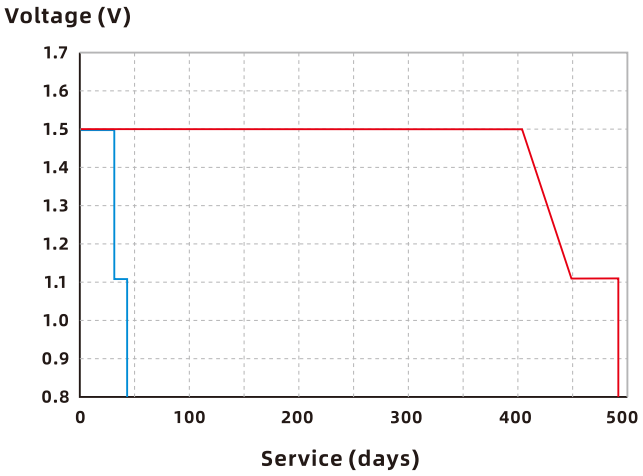
110mA 30min/day, 2xBatt.s

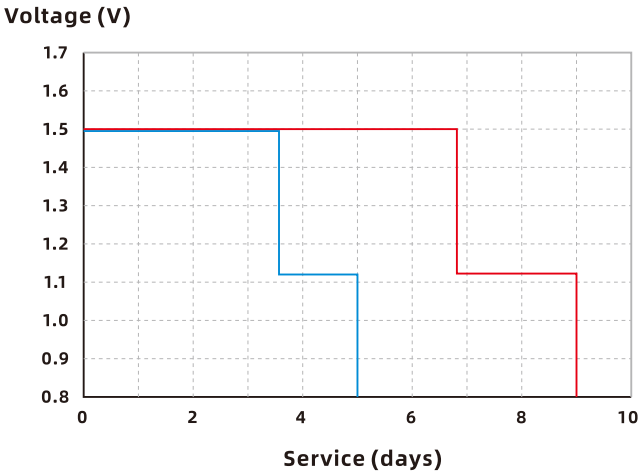
Portable Lighting

3.3ohm 1h/day

Game Controller

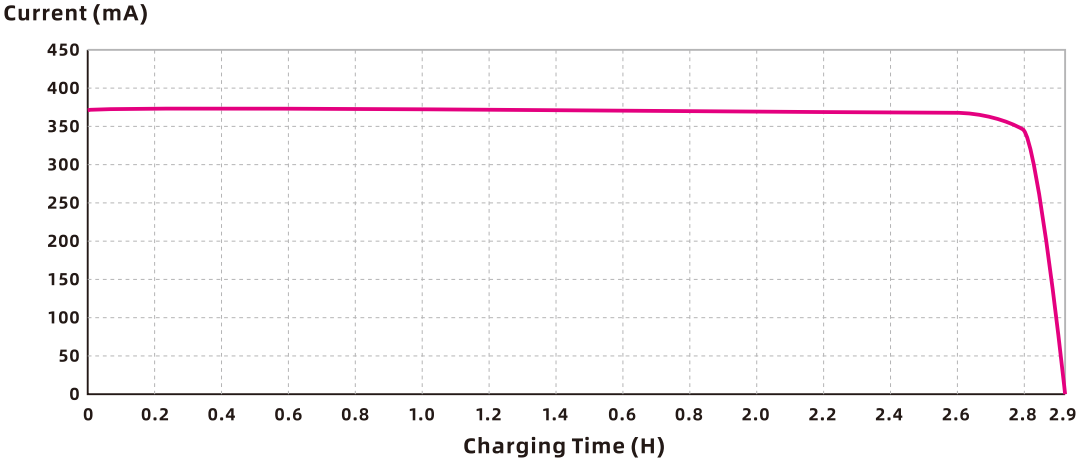
250mA 1h/day, 2xBatt.s





Charging Current Diagram

By XTAR VX4 charger



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Notice:

1) Please read instructions and manual before using the product for safety purposes.
2) Do not charge the battery with unspecified charger. We recommend to use only compatible XTAR 1.5V Li-ion battery chargers for safety and the highest efficiency.
3) Please avoid ambient temperature over 50°C. Do not leave the battery in a car for safety purposes.
4) When the battery is not used for a long period, please keep it in a cool and dry place. Please activate the battery at every 6 month.

Important Notice

This data sheet contains typical information specific to batteries manufactured at the time of its publication.
Contents herein do not constitute a warranty and are for reference only.
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