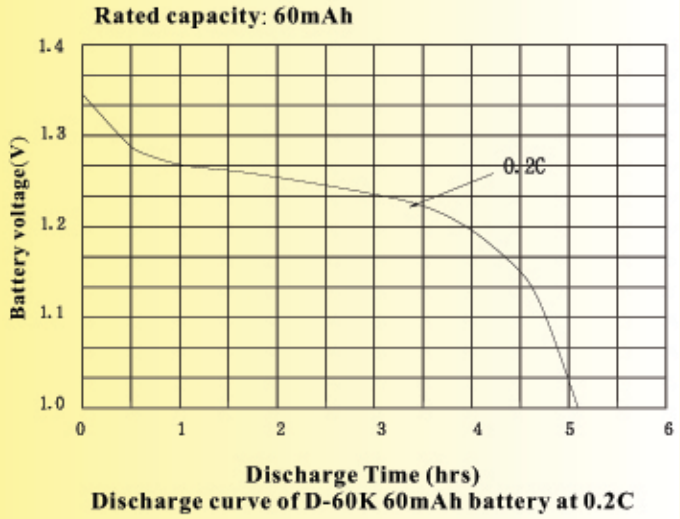
D-60K

Ni-cd rechargeable button cell

Specification

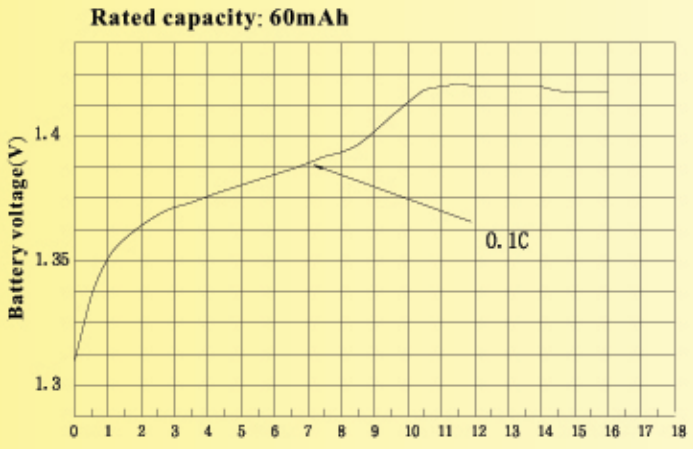
Dimensions	diameter (mm)		16max
	Height (mm)		6.0±0.1
	Weight(g)		Approx 3.3g
Nominal Voltage(V)			1.2 V
Nominal capacity (mAh)			60
Internal Impedance(mΩ)			≤400
Discharge Cut-off Voltage			1.0V
Ambient temperature	Charge	standard	0℃ to 40℃
		quick	10℃ to 40℃
	Discharge		-10℃ to 50℃
	Storage	<1 year	-10℃ to 30℃
		<3 months	-10℃ to 40℃

Discharge curve(discharge at 0.2C)

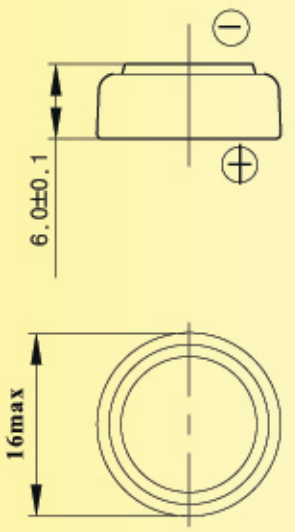


Discharge curve of D-60K 60mAh battery at 0.2C

Charge curve(charge at 0.1C)



Discharge curve of D-60K 60mAh battery at 0.1C



Dimension(Bare cell) mm

D-60K

XTRA-POWER
(Wholly Owned By Strongwill Ltd.)

Ni-cd rechargeable button cell

Appearance

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

Characteristics

Unless otherwise specified, the standard range of atmospheric conditions 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 Procedure and Its Standard

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 1.0V	
3. Discharge Cut-off Voltage			1.0V
4. Capacity	Nominal	Standard Charge/Discharge	60mAh
	Typical	Standard Charge/Discharge	65mAh
5. Internal resistance		After charge at 0.2C_5 for 2.5 hours, rest 5 hours, measured at 1000Hz	≤400mΩ
6. Cycle life		Standard by IEC	Capacity Retention≥65% 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 50℃for 2 hours then at 0.2C discharge, charge at 0.1C for 16h at 20℃±5℃, first.	≥270minutes
9. Low Temperature Test		Store at 0℃ for 2 hours then at 0.2C discharge, charge at 0.1C 16h at 20℃±5℃ 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 for 3 axis after fully charged	No leakage No short-circuit No crack of sleeve