





**Environmental Protection** 



**High Energy** Density

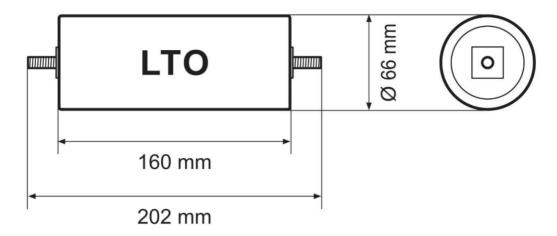


Stable



Shockproof

# **Engineering Drawing(mm)**



Model No.	NX-LTO-45Ah
Battery Type	Lithium Titanate Battery (LTO)
Electrical Data	
Nominal Capacity	45 Ah
Nominal Voltage	2.3 V
Internal Resistance	≤1mΩ
Max. Charging Current	10 C (450 A)
Charging Upper Limit Voltage	2.8 V
Max. Discharge Current	10 C (450 A)
Discharge Cut-off Voltage	1.5 V
Cycle Lifetime	30,000
Operational Requirements	
Operating Ambient Temperature	-50°C ~ 65°C (Charging) -50°C ~ 65°C (Discharging)
Storage Ambient Temperature	-20°C ~ 45°C Short-term (within 1 month) -20°C ~ 20°C Long-term (within 1 year)
Storage Humidity	<70%
Mechanical Data	
Weight	1.25 kg
Weight Cell Construction Type	1.25 kg Cylindrical
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Cell Construction Type	Cylindrical
Cell Construction Type  Cell Diameter	Cylindrical 66 mm
Cell Construction Type  Cell Diameter  Cell Height (excluding terminals)	Cylindrical 66 mm 160 mm









# 1. Safe and rellable

Extremely high number of charge/discharge cycles>6000 without worrying about the depth of discharge.



# 2.Battery Protection

Reasonable battery protection can fully extend the battery life.



# **3.Temperature Control**

The battery can be used under -20° to 60° and the battery safety is guaranteed.



#### **4.Real Performance**

Free from fear of cold, be stored in low temperature environment



# Penetration test in the water

Single cell with charge (follow the remark's method), under the condition of  $20\,^{\circ}\text{C}\,\pm5\,^{\circ}\text{C}$ , lay it aside for 1 hour, then use cutting machine to cut the cell vertically, the result shows no leakage, fire or explosion etc.



## **Cutting test**

Single cell with charge (follow the remark's method), under the condition of  $20\,^\circ\!\!\!\mathrm{C}\pm5\,^\circ\!\!\!\mathrm{C}$ , lay it aside for 1 hour, then use cutting machine to cut the cell vertically, the result shows no leakage, fire or explosion etc.



#### **Drilling test**

Single cell with charge (follow the remark's method), under the condition of  $20\,^{\circ}\mathrm{C}\pm5\,^{\circ}\mathrm{C}$ , lay it aside for 1 hour, then use electric drill vertically penetrates into the cell, the pin stays in the cell for 1 min, the result shows no leakage, fire or explosion etc.



## **Burning test**

Single cell with charge (follow the remark's method), under the condition of  $20^{\circ}C\pm5^{\circ}C$ , lay it aside for 1 hour, then put the cell into the raging fire, the cell doesn't indicate any inflammation nor explosion within 40mins.

**Results show that:** Yinlong titanium batteries don't occur fire or explosion after penetration, electric di, cutting and other tests.



Fast charge /discharge

