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X3 LI-ION BATTERY BOX

# User's Manual



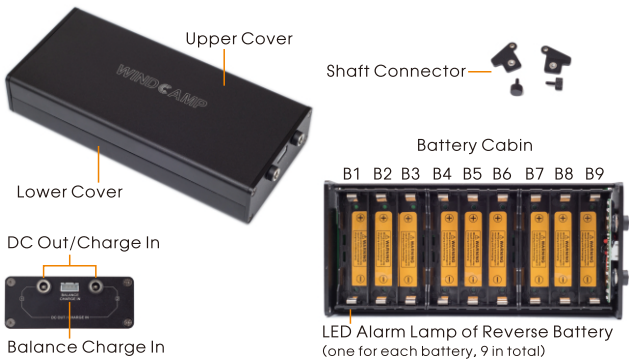
**WINDCAMP**

**Notes:**

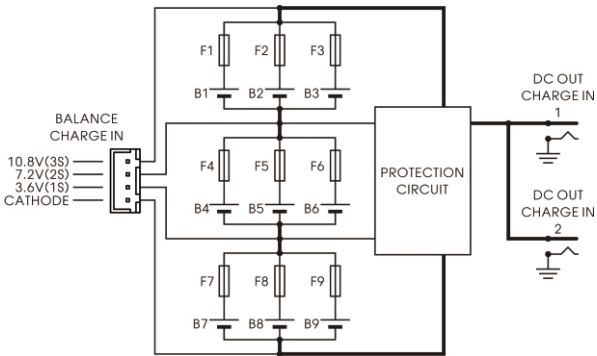
Thank you for choosing X3 LI-ION BATTERY BOX.  
Customized for KX3 transceiver, X3 LI-ION BATTERY BOX is of aluminum alloy body, can pack nine 18650 Li-ion batteries, is of built-in protection circuit, and can supply sufficient power for KX3. It is connected with KX3 transceiver through two shaft connectors. It serves as a mount after opening and of the consistent overall dimension with KX3 after closing, to facilitate portable use and storage.



Product Introduction



Circuit Construction



## Packing List

One X3 LI-ION BATTERY BOX (without battery), one charger, one pair of shaft connector, two thumb screws, one Allen wrench, one KX3 power cord, one power cord for spare, one balance USB cable, one installation instructions and one user's manual

## Technical Parameters

Rated Output Voltage: 10.80V

Capacity: 10.20Ah / 110.16Wh (\*1)

Output Voltage Range: 9-12.60V

Limited Charge Voltage: 12.60V

Maximum Discharge Current: 10A

Overcharge Protection Threshold: 12.60V ( $\pm 0.15V$ )

Over-Discharge Protection Threshold: 8.70V ( $\pm 0.15V$ )

Protection Function: Short-Circuit Protection, Overcurrent Protection, Over-Discharge Protection, Overcharge Protection, and Balance Protection

Net Weight: 0.4Kg (without Battery)

Overall Dimension: 196\*88\*35 (WDH, mm)

\*1. Calculate as per nine Panasonic NCR18650B 3400mAh Batteries.

## Instructions

### 1. Activate the Circuit

After the battery is newly put in or removed, the protection circuit will be in dormant state and at this moment no voltage will be output. You can activate the circuit by inserting the charger into the charging port of the battery box. In case of activation, you only need to insert and extract the charger once and need no long-time insertion of the charger.

### 2. Supply Power for KX3 Transceiver

The short power cord in the accessories bag is used to connect the battery box DC OUT socket and KX3 9-15V DC socket, and then KX3 can be powered.



### 3. Supply Power for Other Facilities

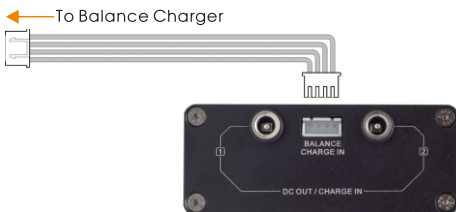
X3 LI-ION BATTERY BOX is provided with two power sockets, to connect one peripheral device besides KX3, such as automatic antenna tuner and frequency spectrum display. In use you need to pay attention to whether the voltage is matching, and it is recommended that the total power utilization current does not exceed 10A. Otherwise, the voltage output of the battery box can be switched off due to overcurrent protection.

#### 4.Charge

The charging current of the complete charger is 2A. It takes about 6 hours to fully charge the battery box with the residual capacity of about zero (measured in installing 3400mAh battery). The charger has one LED indicator lamp. Red indicates charging and green indicates charge complete. Under the empty load status, the indicator lamp of the charger is also green.

#### 5.Balance Charge

X3 LI-ION BATTERY BOX is provided with a balance charging port, to be available for the balance charging of senior users (the balance charger is provided by users). The balance charging voltage shall be set to 10.8V (11.1V) or 3S and Li-ion battery is chosen. It is recommended that the charging current does not exceed 5A. Since X3 LI-ION BATTERY BOX has one built-in balance protection circuit in series, it is recommended that the independent balance charger is employed to charge the box, which can output three groups of independent voltage to charge the battery. If the balance charger in series is employed for charging, apart from connecting the balance USB cable in the figure below, DC power cord needs also be connected. For relevant operations, see the User's Manual of Balance Charger.



#### 6.Store

The storage of the Li-ion battery without capacity or fully charged for a long time easily results in the capacity fading, to affect the service life. The right way to store the battery with about 50% capacity when it is not used for more than seven days. Therefore, the electric quantity is simply estimated through the voltage of the battery box read on the screen of KX3 short-wave radio set. The voltage at 50% residual capacity is about between 10.8V and 11.5V. The storage in this voltage range for a long time is favorable for the service life of the battery.



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