

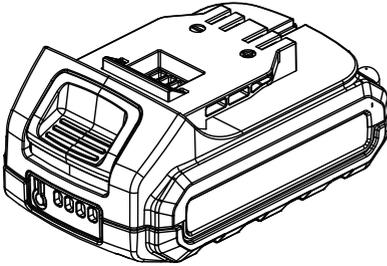
# Instruction Manual

Model:

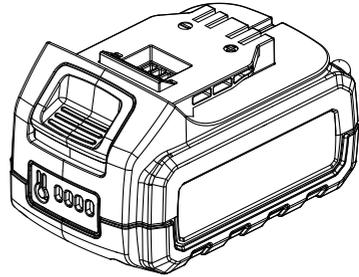
B20X2  
B25X2  
B40X2  
B50X2  
B60X2  
B80X2



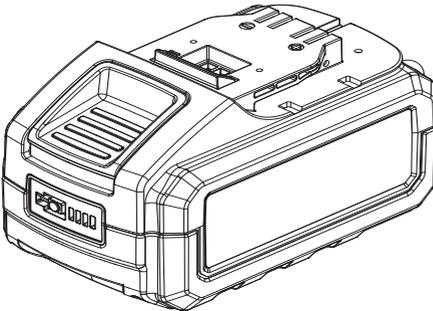
## LI-ION BATTERY PACK



**B20X2 (2.0 Ah)**  
**B25X2 (2.5 Ah)**



**B40X2 (4.0 Ah)**  
**B50X2 (5.0 Ah)**



**B60X2 (6.0 Ah)**  
**B80X2 (8.0 Ah)**

**CAUTION:** Before using this tool, please read this manual completely, and follow all operating safety measures.

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE

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Recycling packaging reduces the need for landfill and raw materials. Reuse of recycled material decreased pollution in the environment. Please recycle packing where facilities exist.



RCM Mark

## SAFETY & INTERNATIONAL SYMBOLS

Explanation of safety & international symbols describes safety and international symbols and pictographs that may appear on this product. Read the instruction manual for complete safety, assembly, operating and maintenance and repair information.



Caution / Warning.



To reduce the risk of injury, user must read instruction manual.



Do not use in rain or wet conditions.



Do not dispose of battery packs in rivers or immerse in water.



Do not dispose of battery packs in fire. They will explode and cause injury.



Use and store the battery with a maximum temperature of 50°C.



Do not disassemble, crush, heat above 100°C; Never expose the battery to microwaves or high pressures.

# SAFETY INSTRUCTIONS



## WARNING!

Read all warnings and instructions.

Failure to follow the warnings and instructions can cause electric shock, fire and / or serious injury.

Save all warnings and instructions for future reference.

- Do not dismantle, open or shred secondary cells or batteries.
- Keep batteries out of the reach of children. Battery usage by children should be supervised. Especially keep small batteries out of reach of small children.
- Seek medical advice immediately if a cell or a battery has been swallowed.
- Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
- Do not short-circuit a cell or a battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
- Do not remove a cell or battery from its original packaging until required for use.
- Do not subject cells or batteries to mechanical shock.
- In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Do not use any charger other than that specifically provided for use with the equipment.
- Observe the plus (+) and minus (-) marks on the cell, battery and equipment and ensure correct use.
- Do not use any cell or battery which is not designed for use with the equipment.
- Do not mix cells of different manufacture, capacity, size or type within a device.
- Always purchase the battery recommended by the device manufacturer for the equipment.
- Keep cells and batteries clean and dry.
- Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
- Secondary cells and batteries need to be charged before use. Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
- Do not leave a battery on prolonged

charge when not in use.

- After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.
- Retain the original product literature for future reference.
- Use the cell or battery only in the application for which it was intended.
- When possible, remove the battery from the equipment when not in use.
- Dispose of properly.

## BATTERY TOOL USE AND CARE

- a. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- c. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- d. Do not use a battery pack that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- e. Do not expose a battery pack to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion.
- f. Follow all charging instructions and do not charge the battery pack outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

## SERVICE

- a. Have your battery pack serviced by a qualified repair person using only identical

- replacement parts.
- b. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

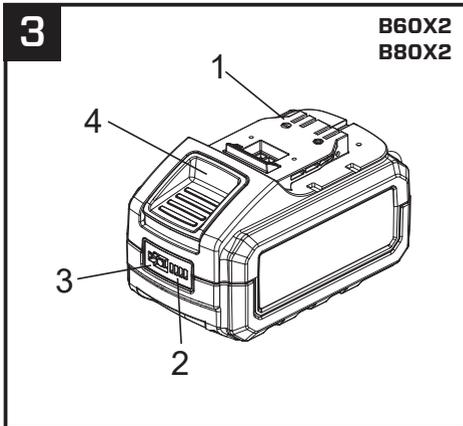
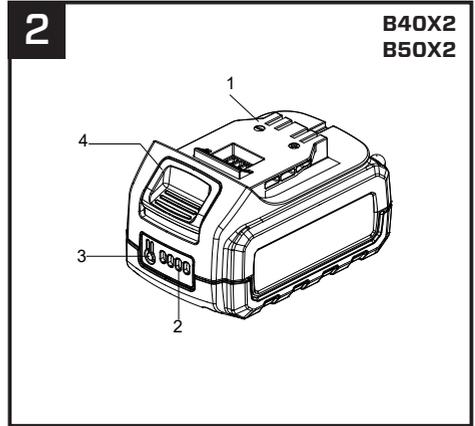
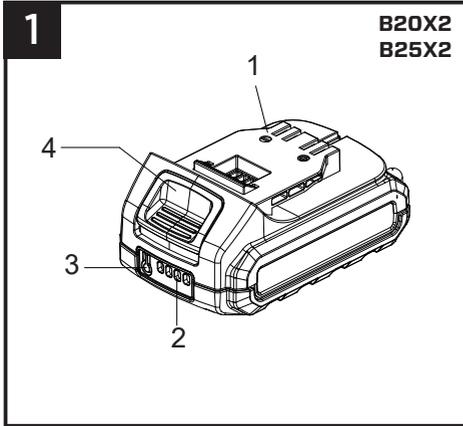
## **INTENDED USE**

Thank you for purchasing this product. Please read through these operating instructions and keep them for future reference.

Use this battery pack for X2 products only. If the product is damaged or has any defect, please do not use it and bring back it to your dealer.

Please note that our equipment has not been designed for use in commercial, trade professional usage or industrial applications.

# KNOW YOUR UNIT



Models: B20X2, B25X2, B40X2, B50X2,  
B60X2, B80X2

1	Battery Terminal
2	Capacity Indicator
3	Capacity Indicator Button
4	Battery-Release Button

Use battery packs for X2 products only.  
Charge only with SENIX X2 chargers.

# SPECIFICATIONS

Models	B20X2, B25X2, B40X2, B50X2, B60X2, B80X2
Rated voltage	18 V $\approx$ (20 V $\approx$ Max*)
Battery model	B20X2
Capacity	2.0Ah, 36Wh
Weight	0.4 kg
Battery model	B25X2
Capacity	2.5Ah, 45Wh
Weight	0.4 kg
Battery model	B40X2
Capacity	4.0Ah, 72Wh
Weight	0.67 kg
Battery model	B50X2
Capacity	5.0Ah, 90Wh
Weight	0.67 kg
Battery model	B60X2
Capacity	6.0Ah, 108Wh
Weight	1.06 kg
Battery model	B80X2
Capacity	8.0Ah, 144Wh
Weight	1.08 kg

Chargers	CHX2	CHQX2-M-EU
Charger output	21V, 2A	21V, 6A
Charger Input	100-240 V ~ 50/60 Hz	
Optimal Charging Temperature	4°C ~ 40°C	
Charging Time		
B20X2	65min	35min
B25X2	85min	45min
B40X2	135min	50min
B50X2	160min	60min
B60X2	195 min	75 min
B80X2	260min	100min

Charging Time		
CHDX2-M-EU	Two Ports	Single Port
B20X2	70 min	35 min
B25X2	90 min	45 min
B40X2	100 min	50 min
B50X2	120 min	60 min
B60X2	150 min	75 min
B80X2	200 min	100 min

\*20V Max battery, maximum initial battery voltage (measured without a workload) is 20V. The nominal voltage is 18V.

## OPERATION



### WARNING!

Before using your battery pack be sure to read the instruction manual carefully. This battery pack has been shipped completely assembled. Carefully remove the battery pack from the box.

## WHEN TO CHARGE THE BATTERY PACK

This battery pack is shipped in a low charge condition to prevent possible problems. Therefore, you should charge prior to first use. This battery pack can be charged at any time. It is necessary to press the light button to see whether the battery pack needs to be charged. When charging, it is important to provide adequate ventilation to avoid this battery pack becomes damaged.

## HOW TO CHARGE THE BATTERY PACK

Charge the battery pack only with the recommended charger in SPECIFICATION. If the charger does not charge the battery pack under normal circumstances, return both the battery pack and charger to your nearest authorized service center for electrical check. It is good practice to unplug the charger and remove the lithium-ion battery pack when not in use.

1. Plug the charger into an approved power supply and the charging indicator on the charger turns red.
2. Press down on the battery pack to be sure the contacts on the battery pack engage properly with contacts in the charger (Fig.1).

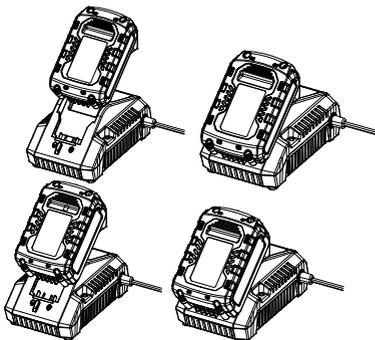


Fig. 1

3. When the battery pack is well connected in the charger, the charging indicator flashes green.
4. Then charge starts. The charger communicates with battery pack to evaluate the condition of the battery pack. The battery pack may become slightly warm to the touch. This is normal and does not indicate a problem.

## WHEN TO REMOVE THE BATTERY PACK FROM THE CHARGER

The battery is fully charged when the charging indicator stops flashing and remains green. Press the capacity indicator button on the battery to further confirm. Then disconnect the power supply from the charger. Remove battery pack from the charger.

## HOW TO REMOVE THE BATTERY PACK FROM THE TOOL

Let the tool stop completely. Press the battery-release button on the battery pack and slide battery pack from the tool.

## CHARGING A HOT BATTERY PACK

When using a tool continuously, the battery pack may become hot. A hot battery pack may be placed directly onto the charger port but charging will not begin until the battery temperature cools to within acceptable temperature range. When a hot battery pack is placed on the charger, the charger may indicate the pack is not ready to charge. Please refer to charger instruction manual. When the battery pack cools the charger will automatically begin charging.

## CHARGING A COLD BATTERY PACK

A cold battery pack may be placed directly onto the charger port but charging will not begin until the battery temperature warms to within acceptable temperature range. When a cold battery pack is placed on the charger, the charger may indicate the pack is not ready to charge. Please refer to charger instruction manual. When the battery pack warms to approximately room temperature the charger will automatically begin charging.



### NOTE:

For the longest possible life and best performance of the battery pack, charge the battery in an ambient temperature between 4°C to 40°C. This is important and will prevent

serious damage to the battery pack.

## CAPACITY INDICATOR

Press the capacity indicator button (1) to check whether it needs to be charged (Fig.2).

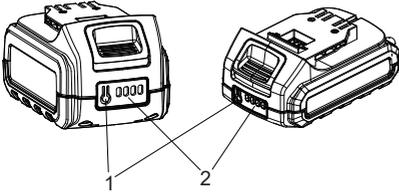


Fig. 2

Light indicator			Remaining Capacity
Fully Lit	Off	Blinking	
█	○	◐	
████			75% - 100%
████○			50% - 75%
███	○		25% - 50%
██	○		5% - 25%
█	○		< 5% (needs to be charged)



## WARNING!

Four battery capacity indicators blinking in sequence may indicate a potential malfunction with the unit.

## COLD WEATHER OPERATION

The lithium-ion battery pack can be used in temperatures down to -20°C. Put the battery pack on a tool and use the tool in a light duty application. After about a minute, the pack will warm up and begin operating normally.

## BATTERY PROTECTION

The battery circuitry protects the battery pack from extreme temperature, over-discharge, and over-charge. To protect the battery from damage and prolong its life, the battery pack circuitry will turn off the battery pack if it becomes overloaded or if the temperature becomes too high during use. This may happen in extremely high torque, binding, and stalling situations. The battery pack will shut down and capacity indicators shining for 4s when pressing the battery capacity indicator button.

## MAINTENANCE

### BATTERIES

These batteries have been designed to provide maximum troublefree life. However, like all batteries, they will eventually wear out. Do not disassemble battery pack and attempt to replace the batteries. Handling of these batteries, especially when wearing rings and jewelry, could result in a serious burn. To obtain the longest possible battery life, we suggest the following: Remove the battery pack from the charger once it is fully charged and ready for use.

### CLEANING

Unplug before any cleaning work. Keep this battery pack free of debris and dirt. Wipe down the equipment with a cloth and/or compressed air. It is highly suggested that you clean the device after every use.

### TRANSPORTATION

Take the battery pack from the tool, and place it into a box avoid being exposed to sunlight during the transportation. Not forget the charger when the battery is transported.

### STORAGE

Do not store the battery pack on the charger. Do not to store close to furnaces, stoves are water heaters. Do not store the battery outside or in vehicles. Keep away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Keep the battery pack away from moisture. Store the battery in a clean, dry place. Cover it in order to provide added protection.

It's best to store the battery and the charger at the temperature of 0°C to 25°C.

For Lithium-Ion battery pack storage longer than 30 days:

- Store lithium-ion battery packs in a 30%-50% charged condition.
- Every six months of storage, fully charge the lithium-ion battery pack.
- Exterior may be cleaned with a cloth or soft non-metallic brush.

## RECYCLING AND DISPOSAL



To preserve natural resources, please recycle or dispose of the battery pack properly.



Power tools that are no longer usable should not be disposed of with household waste but in an environmentally friendly way. Please recycle where facilities exist. Check with your local council authority for recycling advice.

This battery pack contains Li-ion batteries. Consult your local waste authority for information regarding available recycling and/or disposal options.

Discharge your battery pack by operating your tool, then remove the battery pack from the tool housing and cover the battery pack connections with heavy-duty adhesive tape to prevent short circuit and energy discharge. Do not attempt to open or remove any of the components.

## ENVIRONMENTAL PROTECTION

Waste electrical products must not be disposed of with household waste. defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice. It will then be recycled or dismantled in order to reduce the impact on the environment and for human health since they contain hazardous substances.

# TROUBLESHOOTING

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.

<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
The battery pack doesn't work	The battery pack is running out of power	Charge the battery pack
	Battery pack broken	Contact an authorized service center.
	Temperature out of working range.	If capacity indicators of the battery blinks for 4s when pressing the capacity indicator button. That means it is under protection. Allow the battery to cool down then resume use.