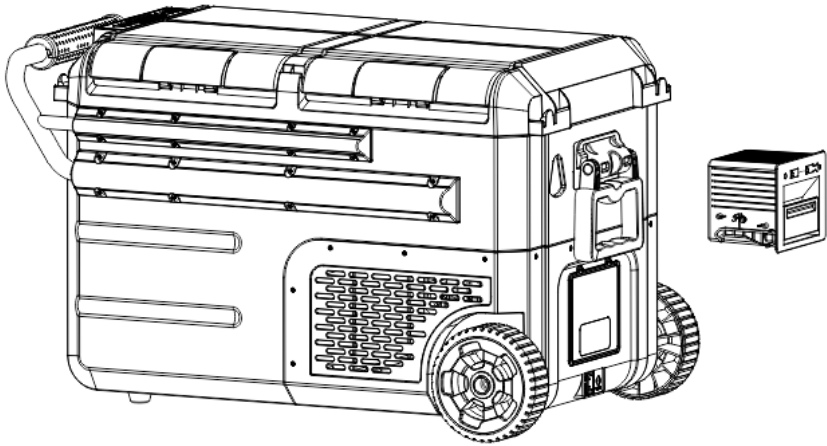


# Battery for Car Refrigerator

## B-1



Thank you for purchasing the battery for car refrigerator. To ensure the safe use of this product, please read this manual carefully and keep this product in a safe place. If you transfer this product to another user, please make sure to also provide this instruction manual and any documents supplied with this product. Thank you.

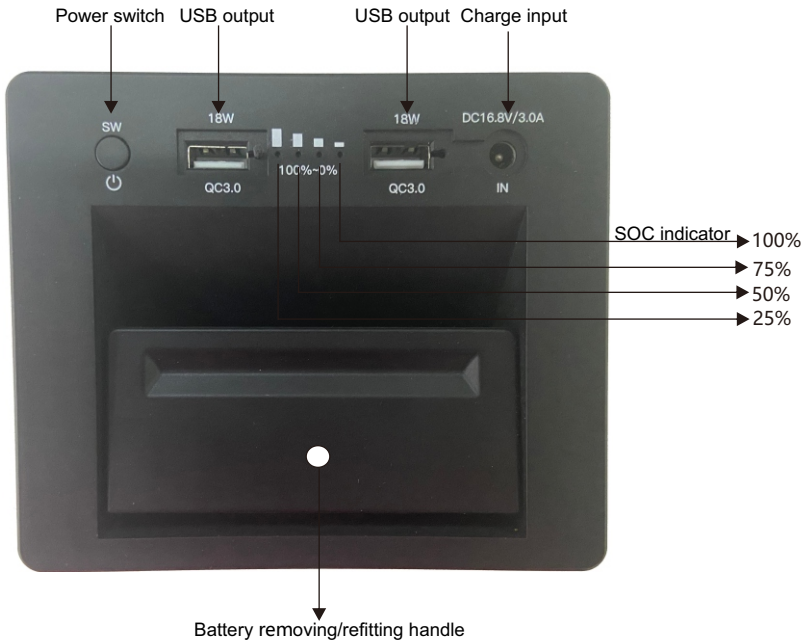


The battery should be fully charged before installing it into the refrigerator for use.



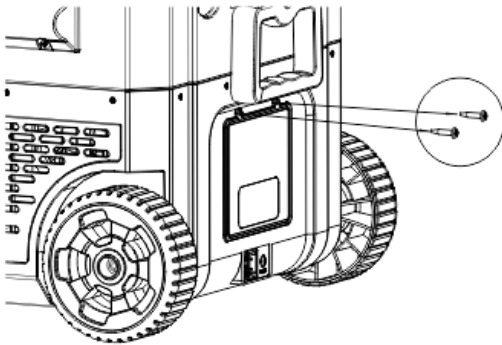
Notice: any failure to follow safety instructions may cause a fire, electric shock or other injuries.

## Battery panel

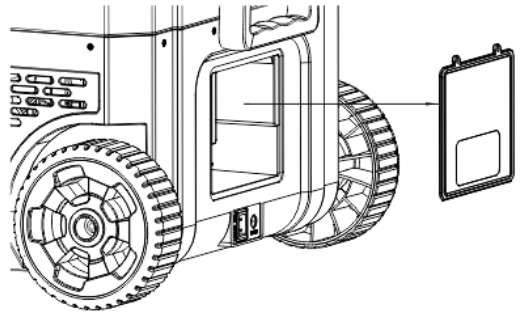


## Schematic diagram of installing battery into/removing it from the refrigerator

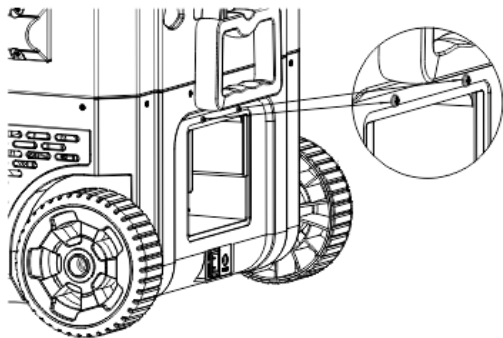
1、Remove the screw



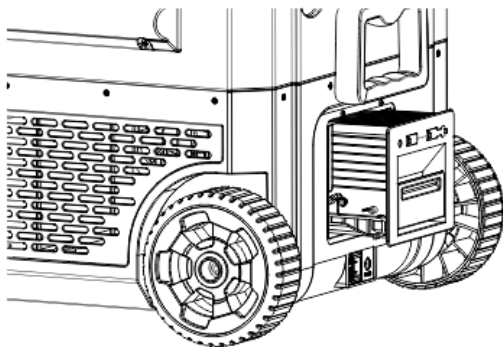
2、Remove the cover plate



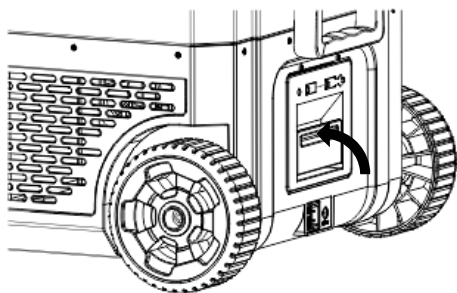
- 3、 Refit the screw to fix the battery back cover



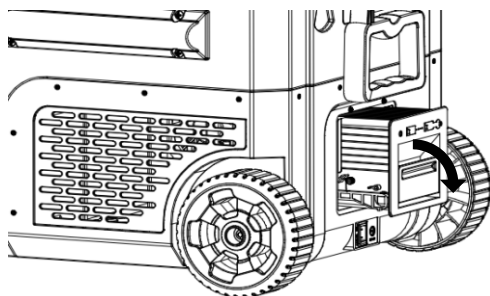
- 4、 Push the battery into the back cover of the battery



- 5、 Press the battery removing/refitting handle to ensure that the battery is installed in place

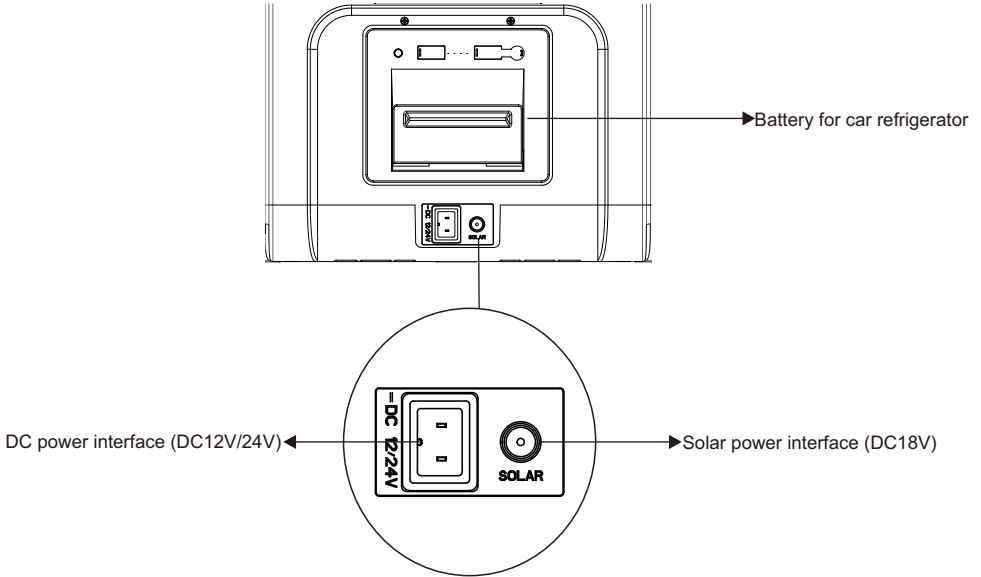


- 6、 Remove the battery: pull the battery removing/refitting handle outward and remove the battery from the battery back cover

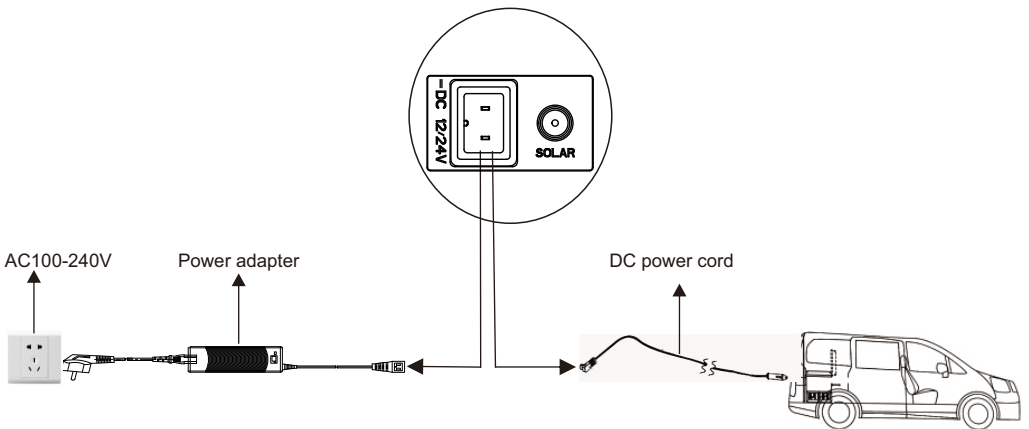


# Power supply and charging

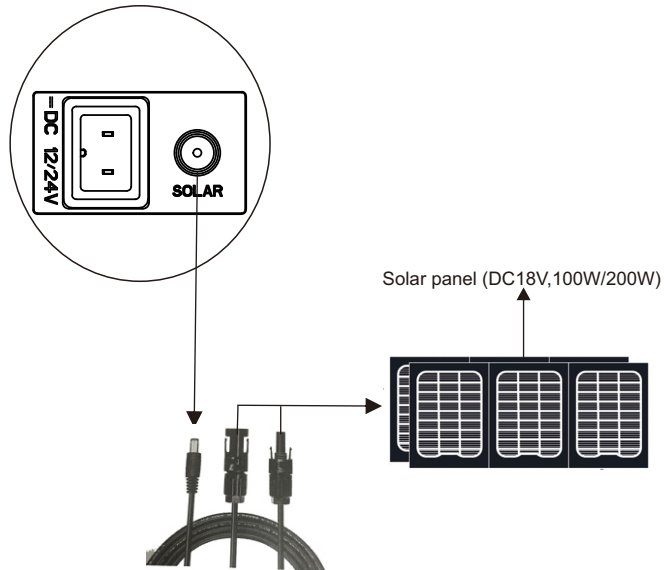
## 1、 Schematic diagram of power interface of the refrigerator



## 2、 The DC power interface of the refrigerator is connected to the external power source for power supply and charging

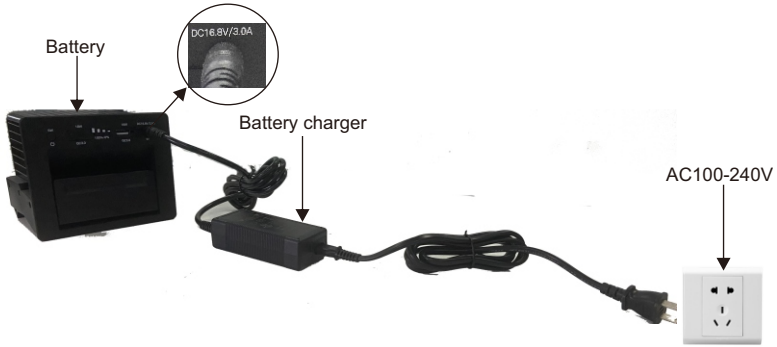


- When the refrigerator is connected to the AC100-240V power supply through the power adapter or it is connected to the car power supply through the DC power cord, the refrigerator will start refrigeration while charging the battery pack (note: only when the refrigerator operating current is lower than 3.5A, charging of battery pack will be started), and the battery icon on the refrigerator display screen will flash to indicate the charging status; when the battery icon stops flashing, it indicates that the charging has stopped or the battery is fully charged.
- 3、 The power interface of the solar panel of the refrigerator is connected to the solar panel (optional if the power interface of the solar panel is provided with this function) for power supply and charging.



- When the refrigerator is connected to the solar panel, ensure that the battery pack is properly installed in the refrigerator; otherwise the refrigerator will not work normally.
  - The solar panel can only charge the battery pack on the refrigerator, but cannot supply power to the refrigerator alone. When the battery pack is being charged, the battery icon on the refrigerator display screen will flash to indicate the charging status; when the battery icon stops flashing, it indicates that the charging has stopped or the battery is fully charged.
- △ The maximum voltage output of the solar panel should not exceed 28V and the maximum current should not exceed 10A; otherwise this may result in damages of the refrigerator controller and any failure of the refrigerator. DC18V, 100W/200W solar panels are recommended.
- △ When the solar panel is used to charge the refrigerator, the refrigerator must be kept at a cool place and be protected against sunlight, so as to avoid overheating of the refrigerator thus to result in any failure.

#### 4、 The battery pack is charged separately



- When the battery pack is being charged separately, the SOC indicator lamp of the battery will flash to indicate the charging status; when the SOC indicator lamp stops flashing and all indicator lamps are lit, it indicates that the battery is fully charged.
- When the battery charger is used to charge the battery separately, the dedicated charger designated by this company must be used.

#### Precautions in operation

- When using the battery for the first time, the battery needs to be turned on. Press and hold the battery switch for 2 seconds, the battery indicator will light up, indicating that the battery is turned on.
- The battery should be recharged after it is removed from use for a long time, so as to maintain a sufficient SOC before providing power supply to the refrigerator.
- A too low ambient temperature (below 0° C) will affect the battery capacity.
- Charging protection: the charging temperature range of this product is 5-45° C. When the charging temperature is lower than 3° C or higher than 47° C, the system will automatically stop charging; when the temperature is higher than 5° C, the charging operation and system operation will be restored.
- Output protection: the output temperature range of this product is set as 0-45° C. When the temperature is lower than -15° C or higher than 63° C, the output will be stopped, and the system will automatically stop discharging and will only restore the output when the temperature reaches 0° C.
- Please fully charge your battery before its storage, charge this product every three months, and store it in a cool, dry place at a storage temperature between -20 ° C and 45 ° C.

- If the battery power is low and the refrigerator automatically shuts down, please recharge the battery in time.
- Backup power: serving as an UPS, the lithium battery can enable the refrigerator to work properly even when it is disconnected from the power supply.
- When the battery or car fridge is not used for a long time, please turn off the battery. Press and hold the battery switch for 2 seconds, the battery indicator will turn off.
- When the battery is installed on the refrigerator and is connected to the DC12/24 or the solar panel, if you desire to speed up the battery charging, you can turn off the refrigerator or change the refrigeration mode to ECO mode.
- It is not allowed to power the refrigerator and battery using both the DC12/2V power source and the solar panel power at the same time! Otherwise, it will seriously damage both the refrigerator and the battery, and even cause personal injuries.

△ Do not expose the battery to rain.

△ When the battery is discarded, please keep the battery away from fire to prevent accidents, and send the battery to the designated place for disposal.

#### ■ Economic power supply by battery

Battery life (the refrigerator is set to ECO mode)	
Refrigeration	About 10 hours
Freezing	About 5 hours

#### ■ Economic power supply by battery

- Pre-departure refrigeration and charging: Before departure, it is recommended to fully charge the battery and start the refrigerator for refrigeration in advance. Before using the lithium battery for power supply, put food and drink into the refrigerator and cool them down to the appropriate temperature, which will maximize the duration of power supply to the refrigerator and save energy in outdoor activities.
- Change the refrigerator operation mode to ECO mode.
- Disconnect the battery: The battery output can be disconnected by removing the battery or turning off the battery switch, so as to prevent self-discharge. This device can be operated using an adapter connected to a household socket or a vehicle power supply when no battery is available. Note: if the battery is to be deactivated for more than one month, please fully charge it in advance.
- With refrigerator working with the battery power, when the error code ER1 appears on the refrigerator display screen, it indicates that the battery power is too low and the battery fails to drive the refrigerator to work, in which case the battery needs to be recharged in time.

## Factors affecting the service life of battery

- Charging, output discharge and storage at a temperature between -20 and 45 ° C. Operation or storage of the battery at a temperature lower than or higher than the allowable operating or storage temperature of the battery will result in a reduction of the service life of the battery.
- Do not use the battery to power devices with a power higher than 100W. In the event of overpower, the battery will automatically stop the output, which will affect the duration of operation.
- The battery needs to be fully charged before its storage. In the case of long-term storage of the battery, the battery should be fully charged every three months as a minimum. After long-time storage, in order to reach its full capacity, the battery should be charged and discharged for several times before putting it into operation again.

## Product specifications

Model	B-1
Rated capacity	13Ah
Stored energy	187.2Wh
Nominal voltage	DC14.4V
Maximum charging voltage/current	DC16.8V/3A
USB1 output	5V $\equiv$ 2A 9V $\equiv$ 2A 12V $\equiv$ 1.5A
USB2 output	5V $\equiv$ 2A 9V $\equiv$ 2A 12V $\equiv$ 1.5A
USB1+USB2 output	5V $\equiv$ 2A

Note: any parameter changes arising from the product improvement will be made subject to the physical object without prior notice.



