

**KOOLBOKS**

# **COMBO SOLAR REFRIGERATOR**

(D12V/24V)



**KOOLBOKS**

***Cheers to being cooler together!  
With your Koolboks in action,  
you're officially part of our  
chill squad.  
Thanks for picking us to keep  
things fresh!***



# KOOLBOKS

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BEFORE USE, PLEASE READ AND FOLLOW ALL SAFETY RULES AND OPERATING INSTRUCTIONS.

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# NOTICE

- A. Before using the refrigerator, please read this manual carefully and keep it for future reference.
  - B. To protect the appearance of the product from damage, there is a protective film on the surface of refrigerator, which you can keep or remove at your own discretion.
  - C. The appliance need to be standing 4 hours at least before first using.
  - D. The appliance need to be working 4 hours before storing food.
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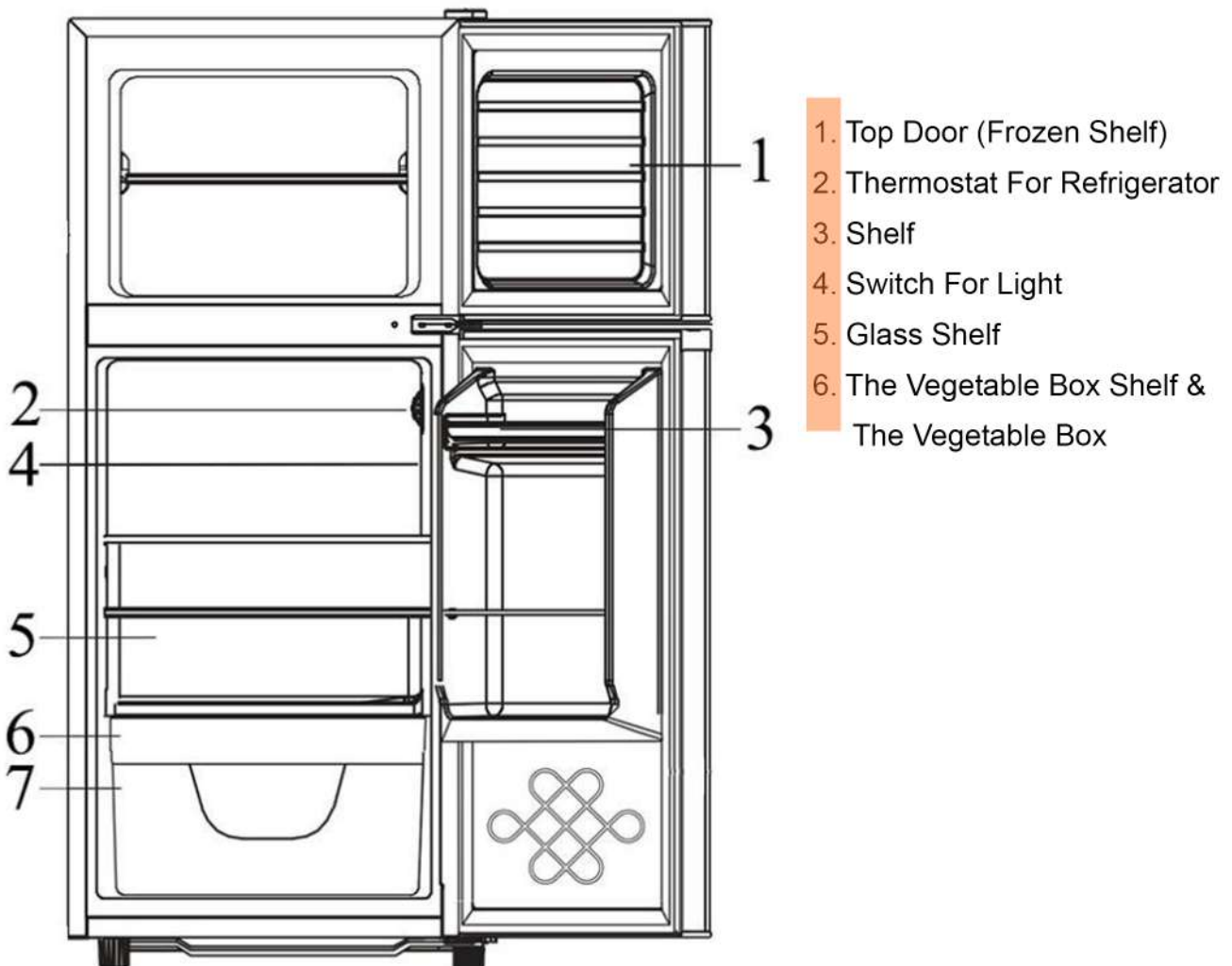
## Product Overview

This solar refrigerator contents two cabinets with different temperature. **Refrigerator cabinet** is used to refrigerate fruit, vegetable, eggs, milk and so on.

**Freezer cabinet** is used for frozen food such as fish, meat and so on. This solar refrigerator adopts flat back panel design and has elegant and graceful appearance.

## Structure of Refrigerator

(BECAUSE THIS MANUAL IS USED FOR SEVERAL MODELS, SOME FEATURES AND DEVICES SHOWN IN THE BELOW FIGURE MAY NOT CONTAINED IN YOUR REFRIGERATOR.)



# Preparation Before Using



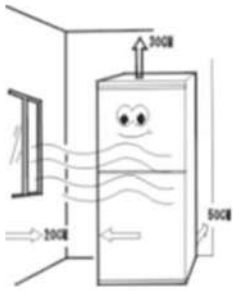
## Move

- During moving, slope less than 45 degree and handle carefully.
- Do not hold the door handle to lift the solar refrigerator.
- Do not reverse, thwart or crush the solar refrigerator.

## Connecting Solar Panel

- Please keep the solar panel cable away from heat sources.
- Please do not press the surface of the solar panel with hands or other hard objects, or put any heavy objects on the solar panel.
- Please avoid sullyng the surface of solar panel, or covering it with dust, which may reduce the efficiency of solar panel. The solar refrigerator can be charged by solar panel or city electricity with adaptor.

## Placement

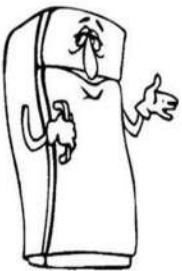


- Solar refrigerator must be placed in dry, cool and ventilated place which is far from heat resource (such as stove, flue) and avoid direct sun shine.
- Allow the following free space for air circulation Top: 30cm Side: 20cm Back: 50cm
- Place the solar refrigerator on floor tough and flat enough to support it when it's fully loaded.

**WARNING:** Take off the package plated under bottom of the refrigerator before using.

# Operating Instructions

## Instruction For First Time Use



- Unpack the packing carton and lace the refrigerator as per installation instructions properly.
- Put the solar panel under sunshine and plug the cable for charging.
- You will see the light in the refrigerator is on. Set the thermostat button at 3 to start compressor. After the refrigerator works for a while, the thermostat will keep the temperature in setting range automatically.
- For the first time use, please put foods into the refrigerator after it cools down.

# Food Storage

## Freezer ( Below -18°C)

- Meat should be cut and wrapped tightly, and then averagely placed in the freezer.
- After buying frozen food, put it in the freezer as soon as it is still in frozen condition.
- Do not put the fresh food and frozen food together.
- Do not put the fruit and vegetable in the freezer to avoid freeze-drying.
- Do not put the glass container or other container with sealed liquid in freezer, or there is a possibility of explosion..

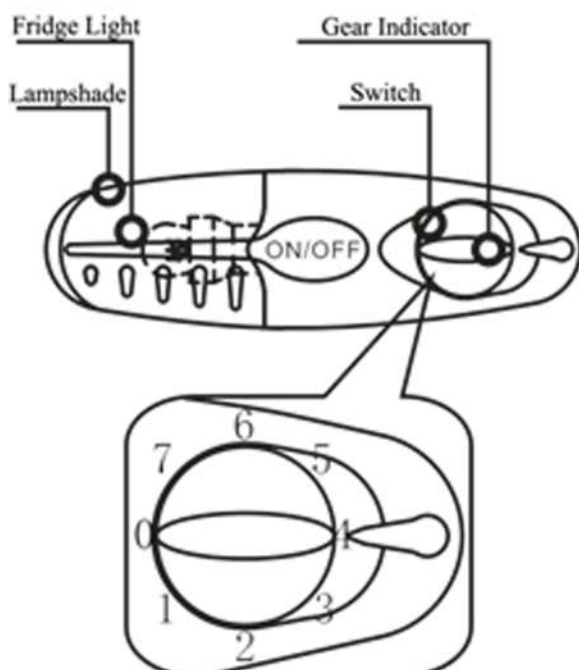
## Refrigerator (0°C-10°C)

- Eggs, butter, milk and bottled drink can be put in refrigerator.
- Fruit and vegetable should be put in the crisper for moisture retaining. Hot food should be cooled down before it's placed in, which could help to save power.
- Food must be packed into fresh keeping bags. Leaving space between packaged foods to keep the circulation or cool air.

## Quick-Freezing

- Food is frozen by a rapid process to retain natural flavor, nutritional value.
- Quick-freezing is better than normal -freezing for meat storage.
- To start quick-freezing, you must set the temperature control at 6-7 and put the food in the mid drawer of freezer. After quick-freezing finishes set the temperature control back to normal position.

## Temperature Control



- The temperature is controlled by thermostat in the refrigerator cabinet “1” is least cold and “7” is coldest.
- You can adjust it according to your requirement. Setting at 0 will force to halt the refrigerator .
- You can set the temperature control at proper position according to environment temperature and how much food loads .
- Normally ,we recommend setting it at “3-4” considering the balance between keeping food fresh and saving energy.



## Defrosting

- After the refrigerator working for a period, frost could be seen on surfaces in the freezer, which reduces refrigerating effect and increases power consumption. In the case, you need to defrost it.
- Unplug the refrigerator and open the doors, take the food to cool place. Use defrosting shovel to remove ice and frost (also can just let the door open, the ice and frost will be thawed by raising temperature). Then use dishtowel to wipe off the ice water. After that, place the food back to refrigerator and plug the refrigerator.

**NOTE:** Do not use sharp metal tools to defrost which will damage the refrigerator.

## Maintenance And TroubleShooting

- Do not touch the food and container (especially Metal container) in the freezer cabinet, particularly when hands are damp or wet. Skin may stick to these cold surfaces.
- Reduce frequent or long time door openings to save power.
- Do not use cleansers containing corrosive and deliquescent material (such as scouring powder, bleach soap powder, alkaline cleansers and so on) to clean the appearance panels, door gaskets and plastic parts.
- Turn off the refrigerator before replacing the light bulb in the refrigerator.
- Do not store flammable and explosive materials in the refrigerator.
- Do not store the food exceeding their storage life because the food would be bad.
- To prevent odor emitting, please tightly wrap the food with strong odors.

**WARNING:** Do not allow children to play games with the refrigerator such as climbing, standing or hanging on the shelves in the refrigerator. They could damage the refrigerator and seriously injure themselves.

# Care and Cleaning

## Turn off the refrigerator before cleaning!

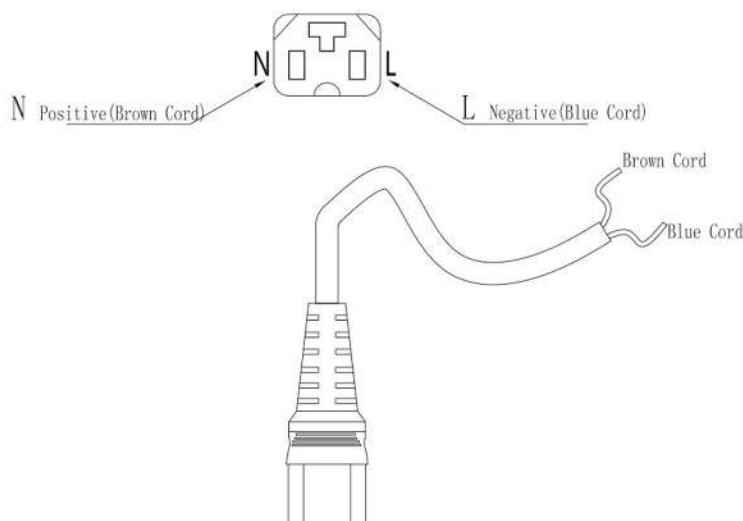
- Use soft cloth dampened with warm water to wipe the inner surfaces and external appearance of the refrigerator.
- Use neutral detergent to clean the heavy stains, and dry with clean soft cloth.
- Keep the refrigerator working continuously in normal using condition. For long vacation or absences, remove food and turn off the refrigerator.
- Clean the refrigerator and leave the doors open a little Shelves in refrigerator cabinet, fruit and vegetable crisper and bottle racks can be removed for cleaning.

**NOTE:** Do not sprinkle water on the refrigerator during cleaning because that would damage the battery of the bottom of fridge.

## Following Situations Are Normal

- The flow of refrigerant through the evaporator may create a boiling or gurgling sound.
- In the raining and high humidity weather ,moisture may form on the outside of refrigerator or door gaskets. You can wipe damp surfaces with dry dishrag.
- The temperature on the back and top of fridge may be high (particularly in summer) due to heat emission of the condenser and defrost heater.
- The temperature on external surface of the compressor may be high when the compressor is working.
- The compressor may cause a high hum or pulsating sound when it is at starting or stopping step.
- During the refrigerator working, some dew or frost may be found on back of refrigerator.

## Diagram For Power Cord



# Troubleshooting

Review the following first if there is trouble

Fault	Cause & Countermeasure
Refrigerator not working	Is the plug connected properly? Out of battery, needs to be charged by solar panel
Poor Cooling Effect	Too much food in refrigerator, no extra space Too much hot food in refrigerator Too close to the wall and no space for refrigerator to cool down Door seal is damaged or deformed
Abnormal Noise	Place the refrigerator on a flat ground. Check if the refrigerator touches the wall or other objects. Ensure that the accessories of the refrigerator are placed in the right positions. Verify whether the refrigeration pipelines in the compressor compartment touch each other."
Refrigerator with odor	Check whether odorous food is sealed. Is there any spoiled food inside? Does the inside of the refrigerator need cleaning?
Compressor does not running	Check whether you put hot food inside. The refrigerator temperature setting is too low. The refrigerator is frequently opened and closed. There is not enough ventilation for the refrigerator, which causes the condenser to not cool down properly. The refrigerator door does not close properly, or the seal is deformed or damaged.
Melted frost water flows out of the fridge to the ground	Check whether the drain hole is blocked Check whether the drain-pipe is assembled well



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