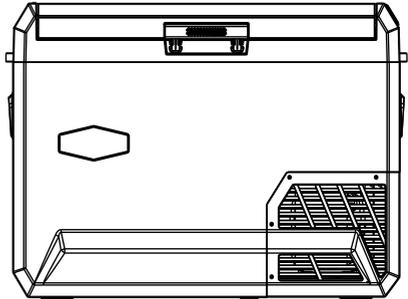
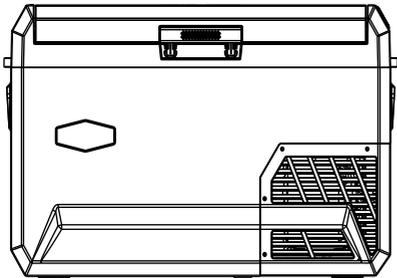
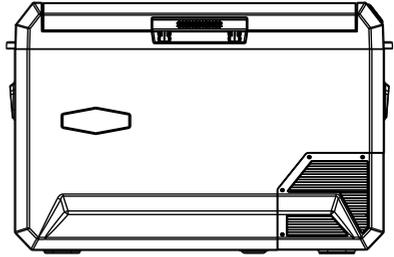
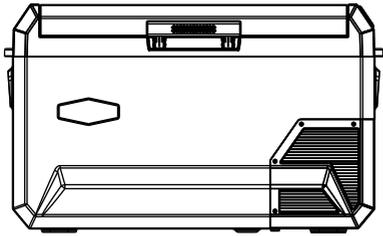


User Manual

Car Refrigerator

Model: PD20/PD30/PD40/PD50



Please read this operation manual carefully before starting the device and store it in a safe place for future reference.

I. SAFETY PRECAUTIONS

- Be sure to read the "Safety Precautions" to prevent accidents such as fire, electric shock, and injury.
- Before using the product, please read all of these "Safety Precautions" carefully to ensure proper use.

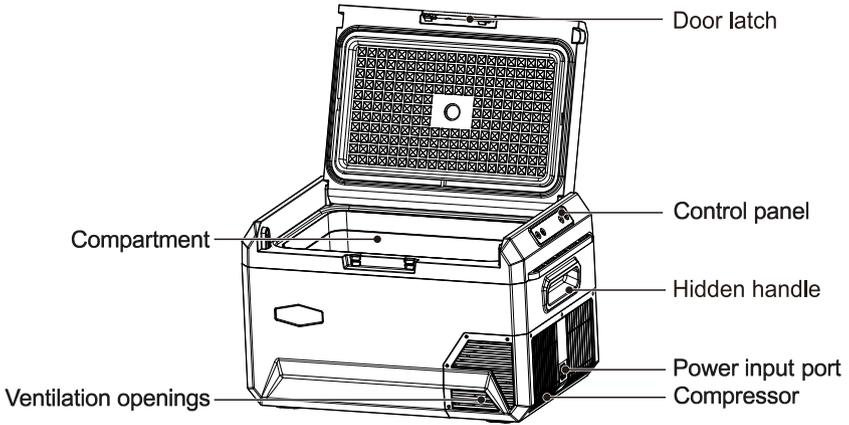
Warning!

- After opening the package, keep the refrigerator in an upright position for at least 6 hours before powering it on.
- In the event of a malfunction or failure, stop using the refrigerator immediately, turn off the power, and disconnect the power plug from the outlet. Failure to do so may cause smoke, fire, or electric shock.
- Do not block the ventilation openings. Do not insert sticks, wires, or other foreign objects into the ventilation openings.
- Do not pour water on the product. Do not expose the product to rain or use it in a damp or wet place.
- Do not use flammable sprays near this product.
- Do not leave this product in a hot place, such as inside a car under the blazing sun.
- Do not store medical supplies or scientific samples in the refrigerator. This is not a precision instrument capable of storing medical supplies.
- Do not store volatile and inflammable materials in the refrigerator.
- Do not handle the AC adapter cord roughly. Do not use a damaged cord.
- Do not place other appliances in the refrigerator except as recommended by the manufacturer.
- Please use it in a horizontal and stable place. Please do not tilt more than 5° backward and forward when running for a long time. Do not tilt more than 45° if running for a short time. Tilting more than 45° will cause malfunction.
- Please ensure good ventilation in the surrounding area during operation and pay attention to the heat dissipation of the compressor without interference. No obstacle should exist within 20cm of the compressor.
- Do not place the product on its side or upside down.

Caution!

- Do not disassemble or repair this product unless you are a service technician. Doing so may result in fire, electric shock, or injury.
- Installation of direct current (DC) power supplies on a boat should be performed by qualified personnel.
- If you notice anything unusual when using or storing the battery, such as heat, leakage, or deformation, stop using it immediately and move away from it.
- Do not leave the door open. The performance will not be fully exerted.
- Do not allow small children or pets to play with this product. Store it out of the reach of children.
- When disposing of the old product, keep it in a safe place so that children will not be trapped.

II. PARTS NAME AND STANDARD ACCESSORIES



AC Adapter

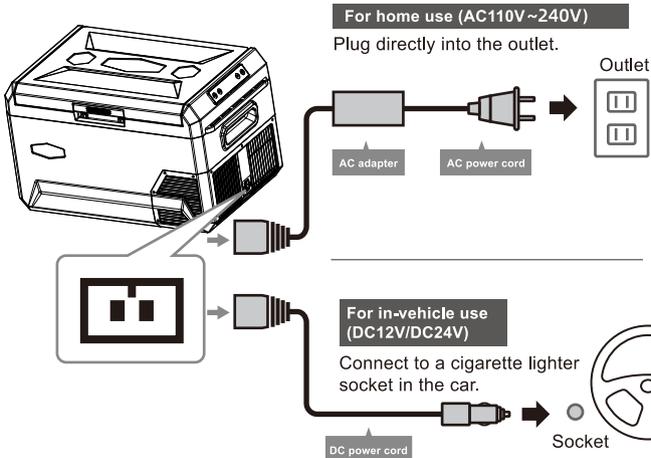


DC Power Cord



Manual (Warranty)

III. POWER SUPPLIES

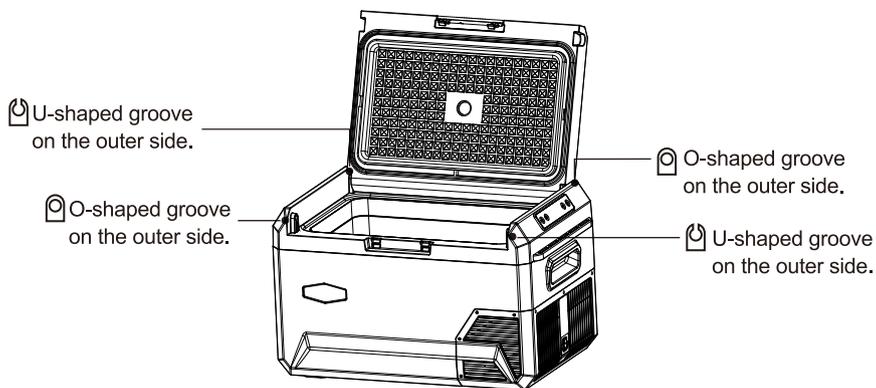


•When using a DC cord to supply power, different vehicles may give different output voltages. If the voltage protection shows E1, this can be remedied by adjusting the battery protection level from 'H' to 'M' or 'L'.

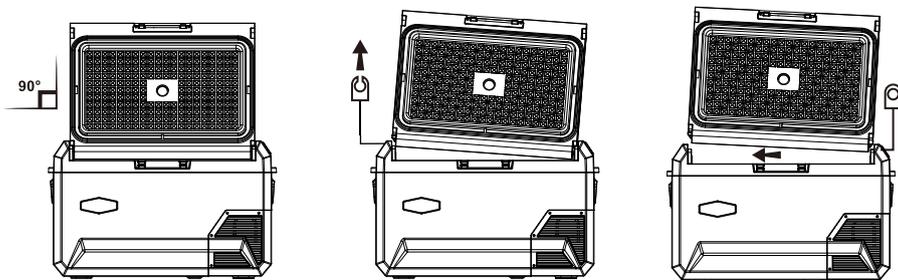
IV. CHANGING THE DOOR OPENING AND CLOSING DIRECTION

The opening and closing direction of the door can be changed depending on the environment in which it is installed. To change the open/close direction, follow the steps below.

※Do not pull the door up at an angle or apply excessive force. Doing so may cause damage.

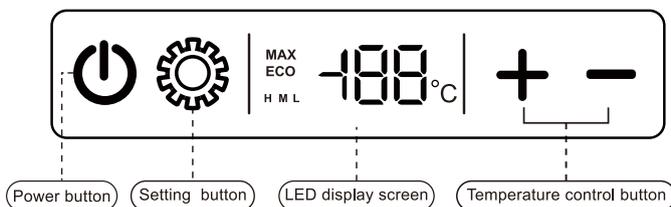


How to remove the door:



- ① Turn the door 90 degrees.
- ② Pull up the outer shaft of the door from the U-shaped groove and remove it.
- ③ Pull out the shaft on the back side of the door from the O-shaped hole and remove it.

V.BASIC FUNCTIONS AND USAGE



1. Turn on the power

Press the power button on the control panel to turn on the display screen. Press the power button once more to turn off the power.

*When the power is turned on, the current internal temperature is displayed.

2. Temperature setting

Press the setting button on the control panel and hold down the "+/-" button to adjust the temperature. Short press of the "+/-" button allows the temperature to be set in 1°F increments. If you press and hold the +/- button, the temperature changes continuously, allowing you to set the temperature faster. (The temperature changes about 4°F per second.)

※During adjustment, the screen will blink. As soon as the blinking ends, the temperature setting is complete. It will not blink for a long press.

3. Operation mode

There are two operation modes, MAX (fast cooling mode) and ECO (energy saving mode). When the power is on, press the setting button twice and the operation mode will be displayed as flashing. Press the "+/-" button to select "MAX" or "ECO" according to your preference.

4. Battery protection level

The battery protection level can be adjusted in three levels H/M/L (high/medium/low). When the power is on, press the setting button 3 times, the protection level display will change to flashing. Press the "+/-" button to select H/M/L according to your preference. After adjusting to the desired level, leave it for 3-5 seconds and the level switching is completed. (The factory setting is H.)

Input Voltage Reference Table *Voltage values are for reference only. Please note that there is a possibility of error.

Input voltage level	DC 12V		DC 24V	
	Compressor stops	Compressor runs	Compressor stops	Compressor runs
L	9.6V	10.9V	21.3V	22.7V
M	10.1V	11.4V	22.3V	23.7V
H	11.1V	12.4V	24.3V	25.7V

When used in a car, it is recommended to set the protection level to "H".

Otherwise, the battery power consumption will be high and the car engine may stop or fail to start.

5. Switching the display temperature unit

The temperature unit on the display screen can be switched between Celsius & Fahrenheit.

Method 1

Press and hold "+" and "-" buttons at the same time for 3~5 seconds to switch temperature units.

Method 2

- ① Turn off the power and press and hold the setting button for 3 seconds.
- ② "F1" will appear on the screen. Press the setting button will switch the displayed symbols "F1~F3, CF" (from F1 to CF).
- ③ Press until "CF" appears. Then press the "+/" button to adjust to °C or °F. When adjustment is completed, leave the device in a stationary state for 5 seconds, and when the blinking ends, the switching is complete. *F1 to F3 are to be repaired by an engineer, so customers should not set them without permission!

6. Memory function

This product can memorize the last temperature setting. After pressing the power button, if no other button is pressed for 5 seconds, operation will start at the previously set temperature.

VI. PRECAUTIONS FOR PLACING FOOD IN THE REFRIGERATOR

- Please do not put the food directly into the refrigerator. Since there is no antibacterial treatment, please use plastic wrap or put the food in a plastic bag. Please put ice cream and other easy to melt things in the refrigerator after it cools.
- Please note that there is melting depending on the type of ice cream.
- Do not store items with strict temperature control such as pharmaceuticals and academic samples.
- Do not store opened food for a long time. There is a possibility of spoilage and deterioration.
- Do not freeze easily broken items such as bottles. There is the possibility of cracking and injury.
- Do not put too much food at once at environmental temperature. If so, the temperature in the refrigerator will rise.
- Please wrap things with a lot of moisture and heavy fragrance before putting them in.

VII. DAILY CLEANING AND MAINTENANCE

● Cleaning

Clean and maintain the refrigerator every other week. Wipe the inside and outside surfaces of the refrigerator with a warm and wet rag. If it is too dirty, wipe it with a neutral detergent, and then use a washed rag to dry the water stains.

● Plastic parts maintenance

If the oil (animal or vegetable oil) is attached to the plastic parts in the box for a long time, the plastic is easy to age or crack, and gives off peculiar smell. Therefore, we should form the habit of regular cleaning.

It is strictly forbidden to clean the refrigerator directly with water to prevent the electrical insulation from reducing and rusting. The following things will damage the coating and plastic parts, which can't be used for cleaning: alkaline detergent, soap, grinding powder, hot water, brush, thinner, gasoline, alcohol.



VIII. TROUBLESHOOTING

Inspect the following items before requesting repair.

Problem	Cause/Solution
Does not power on	Plug in the AC adapter and DC car charger and check which one can power the fridge and which one is defective, then please contact US for a free replacement AC adapter or DC car charger.
Does not cool	Do not open and close the door frequently. Put in too much food at once or hot food.
The fridge is hissing	This is normal. It is the sound of refrigerant flowing through the tubes of a cooling system.
Water droplets on door or body	This is a natural phenomenon. Please remove the objects around the refrigerator to create an environment that facilitates heat dissipation.
Refrigerator is noisy	This is a natural phenomenon. Vibration when the compressor is running.
Error Code E1	Cause: Low input voltage activates low voltage protection. Check the input voltage reference table for input voltage range. Solution: Set the battery protection level to M/L (medium/low). If powered by a dedicated battery, first fully charge the dedicated battery; if E1 is displayed, set the battery protection level to L (low).
Error Code E2	Cause: The overload protection is activated because the fan is overloaded beyond the allowable current of the product. Solution: Turn off the power, check the connection wiring, etc., and if there are no problems, restart the machine after 5 minutes.
Error Code E3	Cause: The compressor is frequently turned on and off, which activates the protection device. Solution: Turn off the power and restart it after 10 minutes.
Error code E4	Cause: The compressor is running at a reduced speed or overloaded, which activates the protective device. Solution: Reset the compressor, turn it off, and restart it after 1 hour.
Error code E5	Cause: Insufficient heat dissipation activates the overheat protection. Solution: Check if the vent is blocked and place the device in a well-ventilated area (at least 15 cm distance between the vent and the wall). Then turn off the power and restart it after 1 hour.
Error code F6	Cause: The temperature sensor may be loose. Solution: Remove the door and check if the temperature sensor is loose. If there is no problem, please contact the seller.

IX.SPECIFICATIONS

Model	PD20	PD30	PD40	PD50
Rated Voltage	AC 100-240V (dedicated AC adapter recommended), DC 12V/24V, solar panel (18V-30V)			
Rated Output	36W			40W
Capacity	20L	30L	40L	50L
Noise	≤42dB			
Temperature Setting Range	-4~50°F(-20~10°C)			
Dimensions (L*W*H)	572*364*345mm	572*364*427mm	656*420*397cm	656*420*462cm
Weight	Approx. 9.5kg	Approx. 10kg	Approx. 11.5kg	Approx. 12.5kg

X.WARRANTY AND CONSULTATION

The warranty period for this product is one year from the date of purchase. Specifications of this product are subject to change without notice. Please understand this beforehand.

If you suspect that this product is malfunctioning due to the discontinuation of the electronic components used, please inform us of the following

- ① Date of purchase
- ② Order number and product model number
- ③ The circumstances of the malfunction (please explain in as much detail as possible) If you have any questions or need further assistance, please contact the dealer where you purchased the product or the sales contact listed below.

Warranty Card

Model: PD20/PD30/PD40/PD50

Product name: Car Refrigerator

Date of purchase:

Dealer:

Customer name:

Address:

Telephone number:

Please complete the warranty card and use it for any future warranty service.