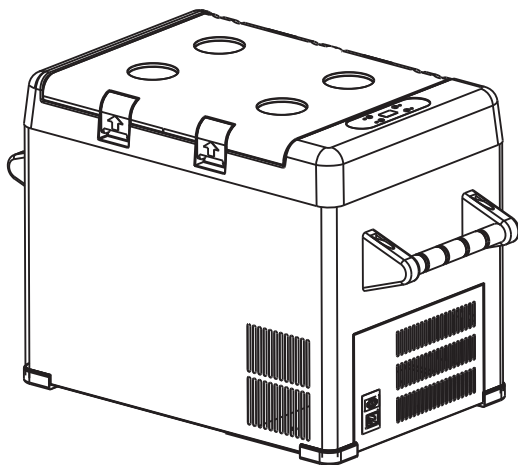


Car Refrigerator

OWNER'S MANUAL



PFN-C-WEA-25/35/45/55

Accessories available separately:-

Protective Transit Bag

AC110V -240Vto DC 12 V Power Adaptor

Please read this manual carefully before using your unit.

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Key Product Features:

- The most reliable portable cooling system in the world.
- Electronics, high efficiency, low energy consumption.
- Multi-voltage system DC (12 and 24 Volt)
- Adjustable battery protection helps protect your battery (DC only).

1. Safety Instructions

- **Warning:** Do not use your unit if any cabling is damaged, frayed or there is exposed wiring.
- **Warning:** Do not attempt or continue to operate your unit if it is wet.
- When using the unit ensure the circuit being used has a fuse or circuit breaker, recommended size for DC 12 Volt is 15 Amp, DC 24 Volt is 7.5 Amp.
- Make sure the voltage is within the correct range for socket and cable being used. The technical data label on the side of the unit shows the voltage ranges.
- Do not place any electrical devices inside the refrigerator as they may be damaged.

2. Notes on using the product

- o Your unit requires good ventilation, especially around the back of the refrigerator; allow a gap of at least 100mm around all sides.
- o Do not allow a large amount of frost to build up on the inside walls as this may impair cooling. Defrost by turning the unit off, allowing the frost to melt and wiping out the water.
- o The lower the ambient temperature, the lower the power usage, in order to maximize efficiency keep the unit in a cool location out of direct sunlight.
- o It is recommended to operate the unit on a flat surface, but it will operate at angles up to 30°.

Battery protection	12V cut-out	12V cut-in	24V cut-out	24V cut-in
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

BATTERY PROTECTION PRE-CONFIGURED SETTINGS

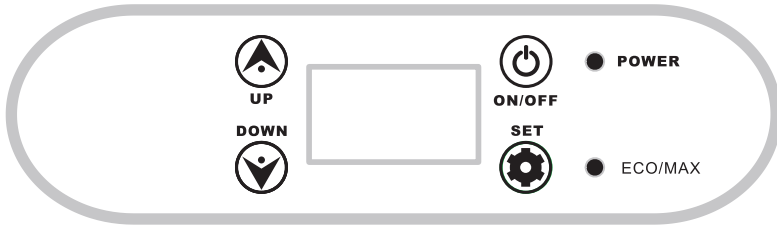
3. Operation

- o Power: Both DC (12 and 24 Volt)
- o Battery Protection: Selecting the Low, Med, High positions of the switch (next to the DC power socket), you can choose different levels for battery protection. In the below table you can find the voltages when the compressor stops running (cut-out) and when the compressor restarts working (cut-in).
- o Cable Length Specification

The DC cables must have a suitable cross-section for their length (measured from the battery to the unit), according to this table:

Cable Thickness		12V Max Cable Length		24V Max Cable Length	
[mm ²]	AWG	[m]	[ft.]	[m]	[ft.]
2.5	14	2.5	8	5	16
4	12	4	13	8	26
6	10	6	20	12	39
10	8	10	33	20	66

BATTERY PROTECTION PRE-CONFIGURED SETTINGS



Temperature setting range: $-20^{\circ}\text{C} \sim 10^{\circ}\text{C}$

The LED Display range: $-40^{\circ}\text{C} \sim 45^{\circ}\text{C}$

- o Press the button \triangle UP or ∇ DOWN button to adjust the temperature the unit aims to achieve. Press the button \triangle to increase or the button ∇ to decrease the temperature.
- o When you press the “SET” buttons , it switches the display ECO and HH.
- o Press the button “SET” to enter the economy running mode, the ECO indicator green LED light will be on. Press the button again; the unit will enter the maximum running mode (HH) MAX indicator red LED light will be on.
- o The economy mode runs the compressor at a lower speed to save power; the maximum mode runs the compressor at a higher speed increasing power usage. Maximum mode is useful if the ambient temperature is over 30°C or fast cooling is required.
- o Plug in the DC power. Press the button ON/OFF to turn the unit on. The LED display on the control panel will turn on and the interior temperature is

displayed.

o If the power supply is cut off or disconnected, the unit will switch off automatically and once the power supply is restored it will automatically switch back on.

4. Cleaning and maintenance

o Clean the appliance inside and out with a clean damp cloth every week. If it is dirty, use sodium bicarbonate dissolved in lukewarm water to clean the unit.

o Never use abrasive products, detergents or soap. After cleaning, wipe out with a clean damp cloth and dry carefully.

o Do not store product inside unit if the unit is not on

o Do not store the unit if it is wet inside or without leaving the lid open.

o Never clean the unit under running water or in dish water. Do not use abrasive cleaning agents or hard objects during cleaning as these can damage the unit.



5. Troubleshooting

• The unit is not turning on

o Check whether the unit has been turned on

o Check the power supply (try a different power source, i.e. different vehicle or power socket)

o Check whether the plug and the socket have a good connection.

o Check whether the fuse has been burned out or blown

• Low refrigeration performance

o Too much product been placed inside the unit

- o There is too much warm product inside the unit
- o The lid is unlatched / or open
- o The lid seal is broken
- o Problems arising from poor ventilation (ensure at least 100mm of space around all sides)
- o The ambient is too high
- o The temperature setting is too high
 - Can hear the sound of running water from inside the unit
- o This is normal, due to the flow of refrigerant in the unit.
 - Unusual noise when refrigerator is working
- o The refrigerator is not placed on a level surface

6.Error Protection Function

While Compressor mould error, LED show ER0,ER1,ER2,ER3,ER4,ER5, ER9, and the compressor stop working. While the error is solved, start work in 2 seconds.

Error Code	Problems	Solution Method
Er0	Temperature Sensor cutting-out	Change the temperature sensor line
Er1	Input low voltage protection	1.Change the battery, 2. Lower battery protection swith
Er2	Over DC current fan protection	Change the fan
Er3	Compressor start working protection	Interrupt power and place 30min, then re-start
Er4	Compressor turning speed error protection	Change the main controller
Er5	Temperature of the mould anormal	Change the fridges in ventilated place, cool the mould then re-start
Er9	Temperature sensor disconnection	1.Tighten the temperature sensor line, 2.Change the temperature sensor line.

7.International Certification Approvals



8. Technical Data (DC)

MODEL	PFN-C-WEA-25	PFN-C-WEA-35	PFN-C-WEA-45	PFN-C-WEA-55
CLIMATIC CATEGORY	T / ST / N / SN			
PROTECTIVE CLASSIFICATION OF ELECTRIC SHOCK RESISTANCE	III			
RATED VOLTAGE DC (V)	12/24V			
DC FUSE (A)	15A			
TOTAL INPUT POWER (W)	40W		45W	
RATED CURRENT FOR DC (A)	3. 7A/1. 85A			
REFRIGERANT (g)	40g	45g	50g	55g
N. W (Kg)	12. 5	14	16	17. 5

Guidelines for protection of the environment

DISPOSAL : Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.



Meaning of crossed-out wheeled dustbin: Do not dispose of electrical appliances as unsorted municipal waste. Use separate collection facilities. Contact you local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

9. Packing List

Item Quantity Model	Refrigerator	DC Power Cord	AC Adapator	User's manual	Handle Parts
PFN-C-WEA-25	1	1	1	1	1
PFN-C-WEA-35	1	1	1	1	1
PFN-C-WEA-45	1	1	1	1	1
PFN-C-WEA-55	1	1	1	1	1