

## KLARSTEIN ICE4-PortFridge50-GN

# Klarstein PolarForce 50L Portable Compressor Refrigerator User Manual

Model: ICE4-PortFridge50-GN

## 1. INTRODUCTION

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This manual provides detailed instructions for the safe and efficient operation of your Klarstein PolarForce 50L Portable Compressor Refrigerator. Please read this manual thoroughly before first use and keep it for future reference. Proper use and maintenance will ensure optimal performance and longevity of your appliance.

**Important Note: Before first use, allow the refrigerator to stand upright for at least 24 hours to allow the refrigerant to settle.**

## 2. SAFETY INSTRUCTIONS

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- Always ensure the power supply matches the voltage specified on the appliance's rating label.
- Do not operate the appliance if the power cord or plug is damaged.
- Ensure adequate ventilation around the unit. Do not block ventilation openings.
- Avoid placing the appliance near heat sources or in direct sunlight.
- Do not immerse the appliance in water or other liquids.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Unplug the appliance before cleaning or performing any maintenance.

## 3. PRODUCT OVERVIEW

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### Components and Features

- **Spacious Interior:** 50-liter capacity with two distinct zones, including two removable storage baskets and a removable divider that can also serve as a cutting board.
- **Precise Temperature Control:** Integrated LCD control panel for easy and accurate temperature adjustments,

complemented by an LED interior light.

- **Powerful Compressor:** Achieves temperatures from  $-20^{\circ}\text{C}$  to  $20^{\circ}\text{C}$ , suitable for both refrigeration and freezing.
- **Efficient Insulation:** High-quality thermal insulation ensures low energy consumption, especially in ECO mode, making it ideal for extended trips.
- **Mobile Design:** Equipped with robust all-terrain wheels and durable dual handles for convenient transport across various surfaces.
- **Battery Protection System:** A three-level battery monitoring system prevents vehicle battery discharge, ensuring your vehicle can always start.
- **Versatile Power Supply:** Operates on both DC (12V/24V) and AC (100-240V) power, suitable for car, boat, or home use.
- **Included Accessories:** DC power cable, AC power cable, two storage baskets, and one divider/cutting board.

## Glacière à compresseur grand volume avec nombreuses fonctionnalités

capacité de 50 litres avec  
2 paniers amovibles et  
séparateur

Peut atteindre des  
températures de  $-20^{\circ}\text{C}$  à  
 $20^{\circ}\text{C}$

Panneau de commande  
LCD intégré et éclairage  
intérieur

  
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Figure 1: Klarstein PolarForce 50L Portable Refrigerator with key features such as 50L capacity,  $-20^{\circ}\text{C}$  to  $20^{\circ}\text{C}$  temperature range, and LCD control panel.



Volume:  
50 litres

## Grand volume intérieur

La glacière dispose  
de deux zones avec deux  
paniers de rangement

Un séparateur peut  
se retirer et servir  
de planche à découper

  
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Figure 2: Interior view demonstrating the spacious 50-liter capacity with two storage baskets and a removable divider.



## Plein de forces pour vos déplacements

Compresseur puissant pour des températures de -20°C à 20°C

Roues tout-terrain et doubles poignées pour un transport sûr

  
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Figure 3: Side view highlighting the robust all-terrain wheels and the integrated control panel for mobile use.

## 4. SETUP

1. **Unpacking:** Carefully remove the refrigerator from its packaging. Retain packaging for future transport or storage.
2. **Initial Placement:** Place the refrigerator upright on a flat, stable surface. Allow it to stand undisturbed for at least 24 hours before connecting to power. This allows the compressor oil and refrigerant to settle.
3. **Power Connection:**
  - **DC Power (12V/24V):** Connect the DC power cable to the refrigerator's DC input port and then to your vehicle's 12V/24V outlet (cigarette lighter socket).
  - **AC Power (100-240V):** Connect the AC power cable to the refrigerator's AC input port and then to a standard wall outlet.
4. **Ventilation:** Ensure there is at least 10 cm of clear space around all sides of the refrigerator for proper ventilation.

# Protection de la batterie à trois niveaux pour éviter les surcharges



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Convient aux voitures,  
camions, bateaux  
et autres véhicules



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Ainsi que pour la prise  
domestique



Figure 4: Illustration of the DC and AC power cables for versatile power supply options.

## 5. OPERATING INSTRUCTIONS

### Control Panel Overview

The control panel features an LCD display and several buttons:

- **Power Button:** Turns the unit on/off.
- **SET Button:** Enters temperature setting mode and cycles through battery protection levels.
- **+ Button:** Increases temperature or navigates menu options.
- **- Button:** Decreases temperature or navigates menu options.

### Basic Operation

1. **Turning On/Off:** Press the Power button to turn the refrigerator on or off.
2. **Setting Temperature:**
  - a. Press the SET button once. The temperature display will flash.

- b. Use the + or - buttons to adjust the desired temperature.
  - c. Press SET again or wait a few seconds for the setting to be saved.
3. **ECO Mode:** The refrigerator automatically operates in ECO mode for energy efficiency. No manual activation is typically required unless specified otherwise in the display.
4. **Battery Protection:**
  - a. With the unit on, press and hold the SET button for 3 seconds. The current battery protection level (H, M, L) will flash on the display.
  - b. Use the + or - buttons to select the desired level:
    - **H (High):** Maximum protection, unit shuts off at higher voltage to prevent vehicle battery drain.
    - **M (Medium):** Standard protection.
    - **L (Low):** Minimum protection, allows longer operation but risks draining vehicle battery more.
  - c. Press SET again or wait a few seconds to confirm the selection.

## Usage Tips

- **Pre-cooling:** For best results, pre-cool the refrigerator at home before loading it with items for your trip.
- **Loading Contents:** Pack items efficiently, allowing some space for air circulation.
- **Energy Saving:** Keep the lid closed as much as possible to maintain internal temperature and conserve energy.

## 6. MAINTENANCE

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### Cleaning

1. Unplug the refrigerator before cleaning.
2. Clean the interior with a damp cloth and a mild detergent. Wipe dry thoroughly.
3. Clean the exterior with a damp cloth. Do not use abrasive cleaners or solvents.
4. Regularly check and clean the ventilation openings to ensure proper airflow.

### Storage

If storing the refrigerator for an extended period, ensure it is clean and dry. Leave the lid slightly ajar to prevent odors and mold growth.

## 7. TROUBLESHOOTING

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### Common Issues and Solutions

- **Refrigerator not turning on:**
  - Check power connections (DC/AC cables).
  - Ensure the power outlet is functional.
  - If using DC power, check vehicle battery voltage and battery protection setting (try 'L' temporarily).
- **Refrigerator not cooling:**
  - Verify temperature setting.
  - Ensure ventilation openings are not blocked.
  - Check if the lid is properly closed.

- Avoid overloading the unit with warm items.
- **Display error codes:** Refer to the manufacturer's website or contact customer support for specific error code interpretations.
- **Excessive noise:**
  - Ensure the unit is on a flat, stable surface.
  - Check for any obstructions around the fan.
  - A slight humming sound from the compressor is normal.

## 8. SPECIFICATIONS

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### Technical Specifications

Feature	Specification
Model Name	Polarforce 50
Model Number	ICE4-PortFridge50-GN
Capacity	50 Liters
Temperature Range	-20°C to 20°C (-4°F to 68°F)
Dimensions (L x W x H)	65.4 cm x 44.1 cm x 53.1 cm (25.75 in x 17.36 in x 20.91 in)
Weight	16 kg (35.27 lbs)
Power Input	DC 12V/24V, AC 100-240V
Material	Polyurethane (PU) or Polystyrene (PS)
Noise Level	43 dB
Special Features	LCD control panel, all-terrain wheels, dual handles, three-level battery protection system
Included Components	2 storage baskets, 1 divider/cutting board, DC cable, AC cable
Recommended Use	Camping, travel

  
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Figure 5: Product dimensions (Length: 65.4 cm, Width: 44.1 cm, Height: 53.1 cm).


Fiche d'information sur le produit				doivent pas être en contradiction avec les conditions de stockage prévues à l'annexe IV, tableau 3			
RÈGLEMENT DÉLÉGUÉ (UE) 2019/2016 DE LA COMMISSION en ce qui concerne l'étiquetage énergétique des appareils de réfrigération							
Nom du fournisseur ou marque commerciale: Klarstein							
Adresse du fournisseur: Customer_service, Mühlenstraße 25, 10243 Berlin, DE							
Référence du modèle: 10046217							
Type d'appareil de réfrigération:							
Appareil à faible niveau de bruit:		Non	Type de construction:		à pose libre		
Appareil de stockage du vin:		Non	Autre appareil de réfrigération:		Oui		
Paramètres généraux du produit:							
Paramètre		Valeur		Paramètre		Valeur	
Dimensions hors tout (millimètres)	Hauteur	531		Volume total (dm <sup>3</sup> ou l)	50		
	Largeur	441					
	Profondeur	654					
IEE		99		Classe d'efficacité énergétique		E	
Émissions de bruit acoustique dans l'air [dB(A) re 1 pW]		43		Classe d'émission de bruit acoustique dans l'air		D	
Consommation d'énergie annuelle (kWh/an)		150		Classe climatique:		tempérée élargie, tempérée, subtropicale	
Température ambiante minimale (°C) à laquelle l'appareil de réfrigération est adapté		10		Température ambiante maximale (°C) à laquelle l'appareil de réfrigération est adapté		38	
Réglage hiver		Non					
Paramètres des compartiments:							
Paramètres et valeurs de compartiment							
Type de compartiment	Volume de compartiment (dm <sup>3</sup> ou l)	Réglage de température recommandé pour un stockage optimisé des denrées alimentaires (°C) Ces réglages ne	Pouvoir de congélation (kg/24h)	Defrosting type (auto-defrost=A, manual defrost=M)			
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Modèle mis sur le marché de l'Union du 01/05/2024							
Numéro d'enregistrement EPREL: 1974625							
Fournisseur: Chal -Tec GmbH (Mandataire)		<a href="https://eprel.ec.europa.eu/qr/1974625">https://eprel.ec.europa.eu/qr/1974625</a>					
Service après-vente:		Site web:					
Nom: Customer_service		Site web: <a href="https://www.elektronik-star.de/info/impressum/">https://www.elektronik-star.de/info/impressum/</a>					
Courriel: <a href="mailto:info@elektronik-star.de">info@elektronik-star.de</a>		Téléphone: +49303001385500					
Adresse: Mühlenstraße 25 10243 Berlin Allemagne							
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Lien internet vers le site web du fournisseur où se trouvent les informations visées à l'annexe II, point 4, du règlement (UE) 2019/2019 de la Commission: <a href="https://www.klarstein.de/">https://www.klarstein.de/</a>							
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Figure 6: EU Energy Label indicating energy efficiency class E, 150 kWh/annum, 50L capacity, and 43 dB noise level. For more details, visit the [EPREL database](https://eprel.ec.europa.eu/).





**Klarstein**

10046217



**150 kWh/annum**



**50 L**

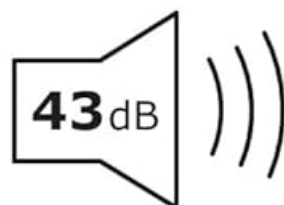


Figure 7: Detailed product information sheet. For more details, visit the [EPREL database](#).

## 9. WARRANTY AND SUPPORT

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Klarstein products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to your purchase documentation or visit the official Klarstein website. Please have your model number (ICE4-PortFridge50-GN) and purchase date available when contacting support.