

SMETA TSG-60B2E-A-2

SMETA 60L 3-Way Absorption Camping Refrigerator

Model: TSG-60B2E-A-2

INTRODUCTION

This instruction manual provides essential information for the safe and efficient operation of your SMETA 60L 3-Way Absorption Camping Refrigerator. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper use and to prevent damage to the appliance or injury to yourself.

This refrigerator is designed for versatile use, offering three power options: 12V DC, 220-240V AC, and gas. It is ideal for camping, RVs, caravans, trucks, vans, yachts, and other off-grid or mobile applications.

SAFETY INFORMATION

Always prioritize safety when operating this appliance. Failure to follow these instructions may result in property damage, injury, or death.

- **Gas Operation:** When operating on gas, ensure adequate gas pressure (30 mbar is recommended) and proper ventilation in the area where the refrigerator is installed. Never use the refrigerator in an unventilated, airtight space with gas.
- **Ventilation:** If using the refrigerator in an enclosed space, especially with propane, a ventilation kit is required to prevent gas accumulation.
- **Level Surface:** The refrigerator must be placed on a horizontal surface. If the tilt angle exceeds 5 degrees, the cooling unit may become blocked and cease to cool effectively. Adjust the feet to ensure the top surface is level.
- **Power Sources:** Do not use two types of power supply simultaneously (e.g., AC and DC, or AC and Gas). Select one power source at a time.
- **Ammonia System:** This is an absorption refrigerator that uses an ammonia, water, and hydrogen mixture for cooling. Do not attempt to repair the sealed cooling system yourself. Contact qualified service personnel for repairs.
- **Initial Setup:** After transport, allow the refrigerator to stand upright for at least 6 hours before plugging it in or connecting to gas. This allows the cooling fluids to settle.

SETUP AND INSTALLATION

Unpacking and Initial Placement

Carefully unpack the refrigerator and remove all packaging materials. Place the unit in its desired location, ensuring it is on a stable, horizontal surface. Use the adjustable feet to level the appliance if necessary. Allow the refrigerator to stand upright for a minimum of 6 hours before connecting it to any power source.



Figure 1: Front view of the SMETA 60L Refrigerator.

Power Connections

This refrigerator supports three power modes:

- **12V DC:** For outdoor and vehicle use (e.g., car, RV, boat). Connect to a 12V DC power outlet.
- **220-240V AC:** For indoor and mains power use. Connect to a standard 220-240V AC wall socket.
- **Gas:** For off-grid use. Connect to a propane gas cylinder. Ensure proper gas line installation and ventilation.

Important: Never connect to more than one power source simultaneously. Always ensure the gas pressure is 30 mbar for optimal performance when using gas.



Figure 2: The refrigerator can be used in various environments, powered by DC 12V for outdoor, AC 220-240V for indoor, or gas for off-grid areas.



Figure 3: Rear view showing power and gas connections. Gas tank is not included.

OPERATING INSTRUCTIONS

Control Panel Overview

The control panel allows you to select the power mode and adjust settings.



Figure 4: Control Panel. A: Mode Change Knob, B: Pulse Igniter, C: Safety Valve, D: Flame Indicator.

- **Mode Change Knob (A):** Use this knob to select your desired power source: DC 12V, AC 220-240V, or Gas.
- **Pulse Igniter (B):** Used to ignite the gas flame when operating on gas mode.
- **Safety Valve (C):** A safety mechanism for gas operation.
- **Flame Indicator (D):** Illuminates to confirm that the gas flame is lit and operating.

First Use and Cooling

After the initial 6-hour settling period, connect the refrigerator to a 220-240V AC power source. Set the temperature to minimum (coldest setting). Allow 6 to 8 hours for the refrigerator to reach its operating temperature. The back of the unit should feel warm, indicating the cooling process is active. Once cooled, you can switch to 12V DC or Gas mode if desired.

This absorption refrigerator operates silently, making it ideal for environments where noise reduction is important.



Figure 5: Silent operation (0dB) ensures a peaceful environment.



Figure 6: Interior capacity and adjustable shelves for organized storage.

MAINTENANCE

General Cleaning

Clean the interior and exterior of the refrigerator regularly with a mild detergent and a soft cloth. Avoid abrasive cleaners or solvents that could damage surfaces. Ensure the unit is unplugged or the gas supply is turned off before cleaning.

Defrosting

This model features a frost-free defrosting system, minimizing the need for manual defrosting. However, if ice buildup occurs, turn off the refrigerator, remove contents, and allow the ice to melt naturally. Wipe away excess water.

Ventilation Maintenance

Regularly check that the ventilation openings around the refrigerator are clear and unobstructed, especially when operating on gas. Proper airflow is crucial for efficient cooling and safety.

TROUBLESHOOTING

If you encounter issues with your refrigerator, refer to the following common problems and solutions:

- **Refrigerator Not Cooling:**
 - **Check Power:** Ensure the unit is properly connected to a single, active power source (12V DC, 220-240V AC, or Gas).
 - **Level Surface:** Verify the refrigerator is on a horizontal surface. A tilt greater than 5 degrees can impede cooling.
 - **Initial Cooling Time:** Allow 6-8 hours for the refrigerator to reach optimal temperature on first use or after being off for an extended period.
 - **Gas Supply:** If using gas, ensure the gas tank is not empty, the gas valve is open, and the gas pressure is sufficient (30 mbar). Check the flame indicator (D on control panel) to confirm ignition.
 - **Blocked Cooling Unit:** If the cooling unit is suspected to be blocked, try the following procedure:
 1. Turn the refrigerator upside down for 8 hours.
 2. Return it to an upright position for 8 hours.
 3. Reconnect power and test.
- **Heating Element Failure:** If the heating element (for AC/DC operation) fails, it will need to be replaced by a qualified technician.
- **Noisy Operation:** This absorption refrigerator is designed for silent operation. If you hear unusual noises, ensure the unit is level and nothing is obstructing the cooling fins at the back.

If problems persist after attempting these solutions, please contact customer support.

PRODUCT SPECIFICATIONS

Brand	SMETA
Model Number	TSG-60B2E-A-2
Capacity	60 Liters
Dimensions (D x W x H)	48 x 46 x 66.5 cm
Weight	22 kg
Power Sources	12V DC, 220-240V AC, Gas (Propane)
Configuration	Compact without freezer
Color	Black
Defrost System	Frost-free
Special Features	Compact, Silent, Adjustable shelves, Absorption cooling

Produktdatenblatt

DELEGIERTE VERORDNUNG (EU) 2019/2016 DER KOMMISSION zur Energieverbrauchskennzeichnung von Kühlgeräten

Name oder Handelsmarke des Lieferanten: Smeta

Anschrift des Lieferanten: Apex CE Specialists GmbH, Ravolzhauser Str. 31 a, 63543 Neuberg, DE

Modellkennung: TSG-60B1E(A)

Art des Kühlgeräts:

Geräuscharmes Gerät:	Ja	Bauart:	freistehend
Weinlagerschrank:	Nein	Anderes Kühlgerät:	Ja

Allgemeine Produktparameter:

Parameter	Wert	Parameter	Wert
Gesamtabmessungen (in Millimeter)	Höhe	Gesamtrauminhalt (in dm ³ oder l)	53
	Breite		
	Tiefe		
EEL	509	Energieeffizienzklasse	G
Luftschallemissionen (in dB(A) re 1 pW)	0	Luftschallemissionsklasse	A
Jährlicher Energieverbrauch (in kWh/a)	402	Klimaklasse:	gemäßigte Zone
Mindestumgebungstemperatur (in °C), für die das Kühlgerät geeignet ist	10	Höchstumgebungstemperatur (in °C), für die das Kühlgerät geeignet ist	32
Winterschaltung	Nein		

Fachparameter:

Fachtyp	Fachparameter und #werte			
	Rauminhalt des Fachs (in dm ³ oder l)	Empfohlene Temperatureinstellung für eine optimierte Lebensmittellagerung (in °C) Diese Einstellungen dürfen nicht im Widerspruch zu den Lagerbedingungen nach Anhang IV	Gefrierermögen (in kg/24h)	Defrosting type (auto-defrost=A, manual defrost=M)

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		Tabelle 3 stehen			
Speisekammerfach	Nein	-	-	-	-
Weinlagerfach	Nein	-	-	-	-
Kellerfach	Ja	56,0	5	-	M
Lagerfach für frische Lebensmittel	Nein	-	-	-	-
Kaltlagerfach	Nein	-	-	-	-
Null-Sterne- oder Eisbereiterfach	Nein	-	-	-	-
Ein-Sterne-Fach	Nein	-	-	-	-
Zwei-Sterne-Fach	Nein	-	-	-	-
Drei-Sterne-Fach	Nein	-	-	-	-
Vier-Sterne-Fach	Nein	-	-	-	-
Zwei-Sterne-Abteil	Nein	-	-	-	-
Fach mit variabler Temperatur	-	-	-	-	-

Lichtquellenparameter:

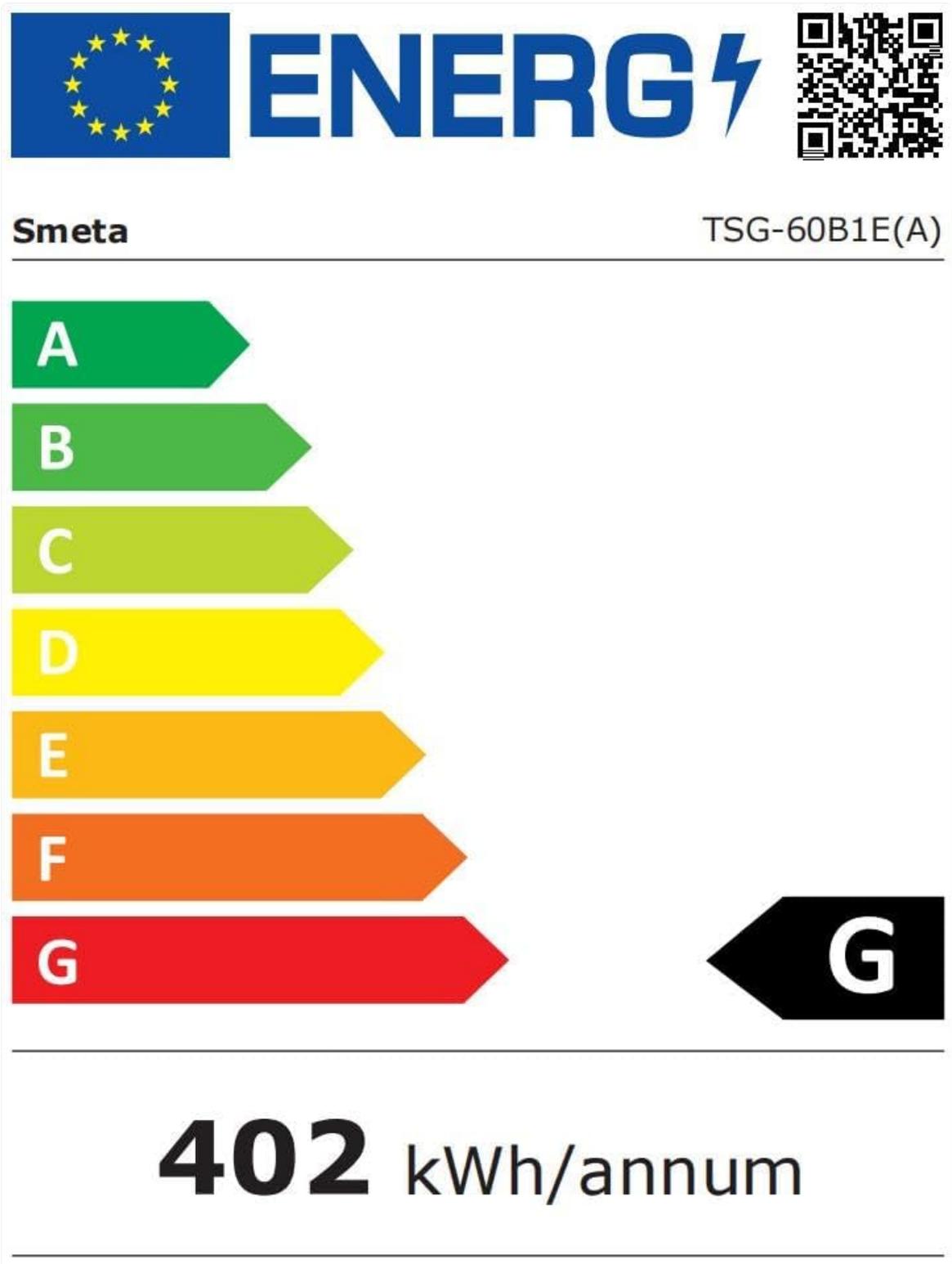
Art der Lichtquelle	-
Energieeffizienzklasse	-

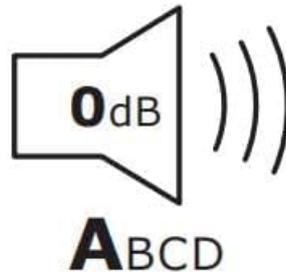
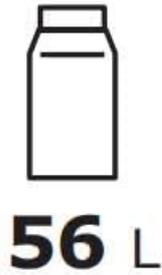
Mindestlaufzeit der vom Hersteller angebotenen Garantie: 12 Monate

Weitere Angaben:

Webink zur Website des Herstellers, auf der die Informationen gemäß Nummer 4 Buchstabe a des Anhangs der Verordnung (EU) 2019/2019 der Kommission zu finden sind: /

Figure 7: Energy Label for the refrigerator.





2019/2016

Figure 8: Detailed product data sheet.

WARRANTY INFORMATION

This SMETA refrigerator comes with a manufacturer's warranty. Please refer to your purchase documentation for specific terms and conditions. Generally, a minimum warranty period of **12 months** is provided by the manufacturer.

Keep your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For technical assistance, installation queries, or if you require a replacement part, please contact the manufacturer directly. Their support team can provide guidance and ensure your appliance operates correctly and safely.

Manufacturer: SMETA Electric Appliances Company

Contact information can typically be found on the product packaging or the manufacturer's official website.