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› TOPENS DKC1100S Solar Sliding Gate Opener Instruction Manual

TOPENS DKC1100S

TOPENS DKC1100S Solar Sliding Gate Opener Instruction Manual

Model: DKC1100S | Brand: TOPENS

1. INTRODUCTION

The TOPENS DKC1100S is a robust solar-powered sliding gate opener designed for heavy-duty gates up to 2600 pounds in weight and 40 feet in length. This automatic gate motor offers flexible power options, advanced safety features, and is suitable for various gate types, providing convenience and security for residential, commercial, courtyard, farm, and ranch applications.

2. WHAT'S INCLUDED

The TOPENS DKC1100S kit comes with essential components for installation and operation:

- 1 x Gate Opener Motor (DKC1100S)
- 3 x 10W 24V Solar Panels
- 1 x Solar Controller
- 2 x M12 Remote Control Transmitters
- 2 x Emergency Release Keys
- 1 x 20 ft. Roller Chain
- 1 x Full Set of Required Installation Hardware



Figure 2.1: Main components included with the TOPENS DKC1100S Solar Sliding Gate Opener.

3. SPECIFICATIONS

Feature	Specification
Model Number	DKC1100S
Max. Gate Weight	2600 lbs
Max. Gate Length	40 ft
Motor Power	3/5 HP (450W DC)
Power Source Options	AC/DC (110-120VAC), Solar (24V 12Ah batteries, not included)
Included Chain Length	20 ft

Item Weight	58.9 pounds
Product Dimensions	11.18 x 5.94 x 18.74 inches

			
	DKC500S	DKC1100S	DKC2000S
Chain Included	20ft	20ft	20ft
Gate Capabilities	1300lbs. and 40ft	2600lbs. and 40ft	4400lbs. and 40ft
Motor Voltage & Power	24VDC & 180W, 1/4 HP	24VDC & 450W, 3/5 HP	24VDC & 550W, 3/4 HP
Gate Moving Speed	8 in/s (20 cm/s)	8 in/s (20 cm/s)	8 in/s (20 cm/s)
Power Mode	AC Electricity and/or Battery (NOT incl.)	AC Electricity and/or Battery (NOT incl.)	AC Electricity and/or Battery (NOT incl.)
Battery Capable & Solar Compatible	✓ (Incl.)	✓ (Incl.)	✓ (Incl.)
# of Remote Controls Included	2	2	2
Compatible Accessories	All the TOPENS Accessories	All the TOPENS Accessories	All the TOPENS Accessories
Overall Dimension	14.4 x 5.6 x 18.6" (365 x 142 x 473 mm)	11.2 x 5.9 x 18.7" (284 x 151 x 476 mm)	12.5 x 5.9 x 20.3" (318 x 151 x 515 mm)

Figure 3.1: Model comparison for TOPENS sliding gate openers.

4. SETUP AND INSTALLATION

The DKC1100S is designed for straightforward DIY installation. However, proper tools and attention to detail are crucial for optimal performance and safety. Refer to the full user manual for detailed step-by-step instructions.

4.1 Essential Tools

A hammer drill is required for securing the base to the ground, as the installation involves drilling into concrete or similar surfaces.

4.2 Chain Installation

The kit includes a 20 ft roller chain. The chain should not be installed overly tight; a slight slack is necessary for proper operation and to prevent undue stress on the motor. You may need to cut the chain to fit your specific gate length.

4.3 Magnet Alignment

Accurate alignment of the external magnet with the internal sensor in the motor casing is critical. This magnet tells the motor when to stop and shut off. Incorrect alignment can lead to the motor continuously running, which will drain the battery.



Figure 4.1: Key components for installation and operation.

5. POWER OPTIONS

The DKC1100S offers versatile power modes to suit different needs:

- **Solar Power:** Utilizes the included 30W solar panels to charge two 24V 12Ah automotive/marine type batteries (not included). This is an energy-efficient and environmentally friendly option.

- **AC Electricity:** Can be directly powered by 110-120VAC electricity.
- **Hybrid:** Combine AC power with batteries for backup, or solar panels with batteries for primary power.

For solar charging, ensure the solar panels are positioned to receive maximum sunlight throughout the day. The solar charge controller (included) manages battery charging.

Support All the Power Modes

— Flexible & Durable Ways for Your Selection



AC Electricity



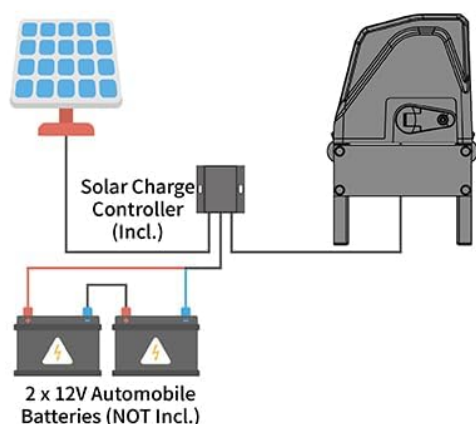
Battery



Solar Panels

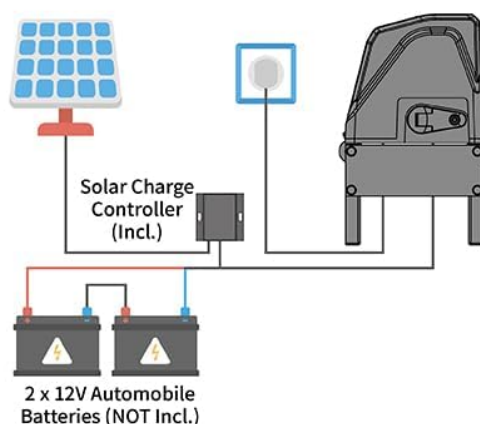
Power Mode 1

By Solar Panels and Batteries



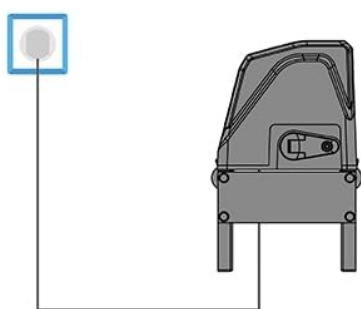
Power Mode 2

By AC Electricity, Solar Panels and Back-up Batteries



Power Mode 3

Use AC Electricity Only



Power Mode 4

By AC Electricity and Back-up Batteries

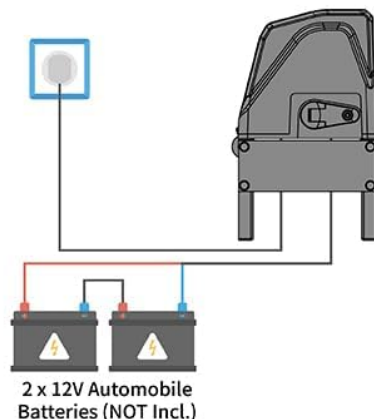


Figure 5.1: Various power configurations for the gate opener.

6. OPERATING INSTRUCTIONS

The gate opener is operated using the included remote control transmitters. Simply press the button to open or close the gate.

6.1 Midway Mode

A unique feature allows the gate to open partially, ideal for pedestrian access or smaller vehicles, without fully opening

the gate.

6.2 Auto-Close Function

For enhanced security, the auto-close function can be enabled to automatically close the gate after a set period, ensuring your property remains secure after entry or exit.



Figure 6.1: Remote control operation of the sliding gate.

7. SAFETY FEATURES

The TOPENS DKC1100S incorporates several safety mechanisms to protect users and the system:

- **Advanced Security Code:** The remote controls utilize an advanced TOPENS code to prevent unauthorized access.
- **Safety Stop-and-Reverse:** In the event of an obstruction during gate movement, the system will automatically stop and reverse direction to prevent damage or injury.

- **Soft Start and Soft Stop:** This feature protects the motor by gradually increasing and decreasing speed at the beginning and end of each cycle, extending the motor's lifespan.
- **Manual Release Key:** An emergency release key is included, allowing the gate to be operated manually during power outages or in other emergency situations.

Why choose TOPENS?

- **OVER 25 YEARS** of experience specialized in gate automation industry, TOPENS has become one of the well-known and trusted consumer brands in North America.
- Advanced technology to deliver safe, smart and reliable products, providing the **HIGH-QUALITY** gate openers & accessories with **LONG-LASTING** performance.
- **LIFE-TIME** tech support. You will have an **EXCLUSIVE** customer support representative to assist you with all of your questions.

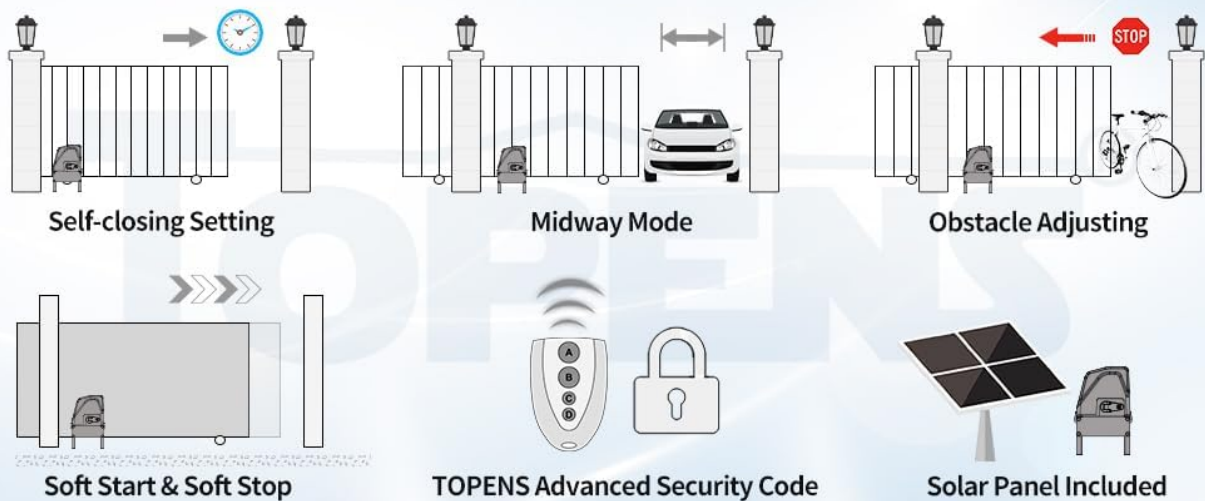


Figure 7.1: Overview of safety and convenience features.

8. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your gate opener:

- Periodically check the chain tension and lubricate as needed.
- Inspect the solar panels for dirt or debris and clean them to ensure efficient charging.
- Verify battery charge levels, especially during prolonged cloudy periods.
- Ensure the path of the gate is clear of obstructions.

9. TROUBLESHOOTING

If you encounter issues with your TOPENS DKC1100S, consult the detailed troubleshooting section in the full user manual. Common issues often relate to power supply, magnet alignment, or remote programming. Ensure all connections are secure and components are correctly installed.

If problems persist, contact TOPENS customer support for professional assistance.

10. WARRANTY AND SUPPORT

TOPENS provides a **12-month warranty** for the DKC1100S gate opener. They also offer a 30-day exchange and return policy.

For further assistance, including downloading the user manual or watching installation videos, visit the official TOPENS website. Their dedicated customer support specialists are available to provide professional and timely solutions for any questions or issues you may have.

11. COMPATIBLE ACCESSORIES

Enhance the functionality of your TOPENS DKC1100S with a range of compatible accessories available from TOPENS:

- TC196 Tuya WiFi Remote Control
- TC188 Universal Keypad
- TC175P Wired Keypad
- TKP3 Wireless Keypad
- TEW3 Vehicle Sensor Exit Wand
- HLR01 Homelink Remote Control Kit
- M12 Remote Control Transmitter
- ERM12 Universal External Receiver
- TRF3 Reflection Photocell Sensor
- TC102 Photo Eye Beam Sensor
- JD24VY Warning Light
- TSQ20W 24V 20W Solar Panel Kit
- LT08B 20 Feet Roller Chain
- TC148 Waterproof Wall Push Button
- TC147 Wall Push Button
- TC173 Wireless Push Button

Compatible Accessories

Available at TOPENS Online Store



TC196 Tuya WiFi Remote Control



TC188 Universal Keypad



TC175P Wired Keypad



TKP3 Wireless Keypad



TEW3 Vehicle Sensor Exit Wand



HLR01 Homelink Remote Control Kit



M12 Remote Control Transmitter



ERM12 Universal External Receiver



TRF3 Reflection Photocell Sensor



TC102 Photo Eye Beam Sensor



JD24VY Warning Light



TSQ20W 24V 20W Solar Panel Kit



LT08B 20 Feet Roller Chain



TC148 Waterproof Wall Push Button



TC147 Wall Push Button



TC173 Wireless Push Button

Figure 11.1: Available compatible accessories.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question