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TOPENS DKC500S

TOPENS DKC500S Solar Sliding Gate Opener

Model: DKC500S | Brand: TOPENS

Introduction and Overview

The TOPENS DKC500S Solar Sliding Gate Opener is designed to provide a safe, smart, and reliable automation solution for heavy-duty sliding gates. Equipped with a powerful 1/4 HP 180W DC motor, it can smoothly operate gates up to 1300 pounds in weight and 40 feet in length. This ultra-quiet electric gate motor offers automatic opening and closing, enhancing convenience and security for residential, commercial, courtyard, farm, and ranch applications.



Figure 1: Complete TOPENS DKC500S Solar Sliding Gate Opener kit, including the motor unit, solar panels, remote controls, and chain.

Product Features

Motor and Gate Capacity

The DKC500S features a robust 1/4 HP 180W DC motor capable of moving sliding gates weighing up to 1300 pounds and extending up to 40 feet. Its design ensures quiet operation and long-lasting performance.



Figure 2: Diagram illustrating the strong powerful motor and its components, including the magnet assembly, chain, chain-wheel, and smart chip.

Flexible Power Options

This gate opener supports multiple power configurations. It can be powered directly by 110-120VAC electricity or utilize solar power with the included 30W solar panels. For off-grid or backup power, two 12V 12Ah automotive/marine type batteries (not included) can be connected in series for 24V operation. This offers energy-efficient and pollution-free operation.

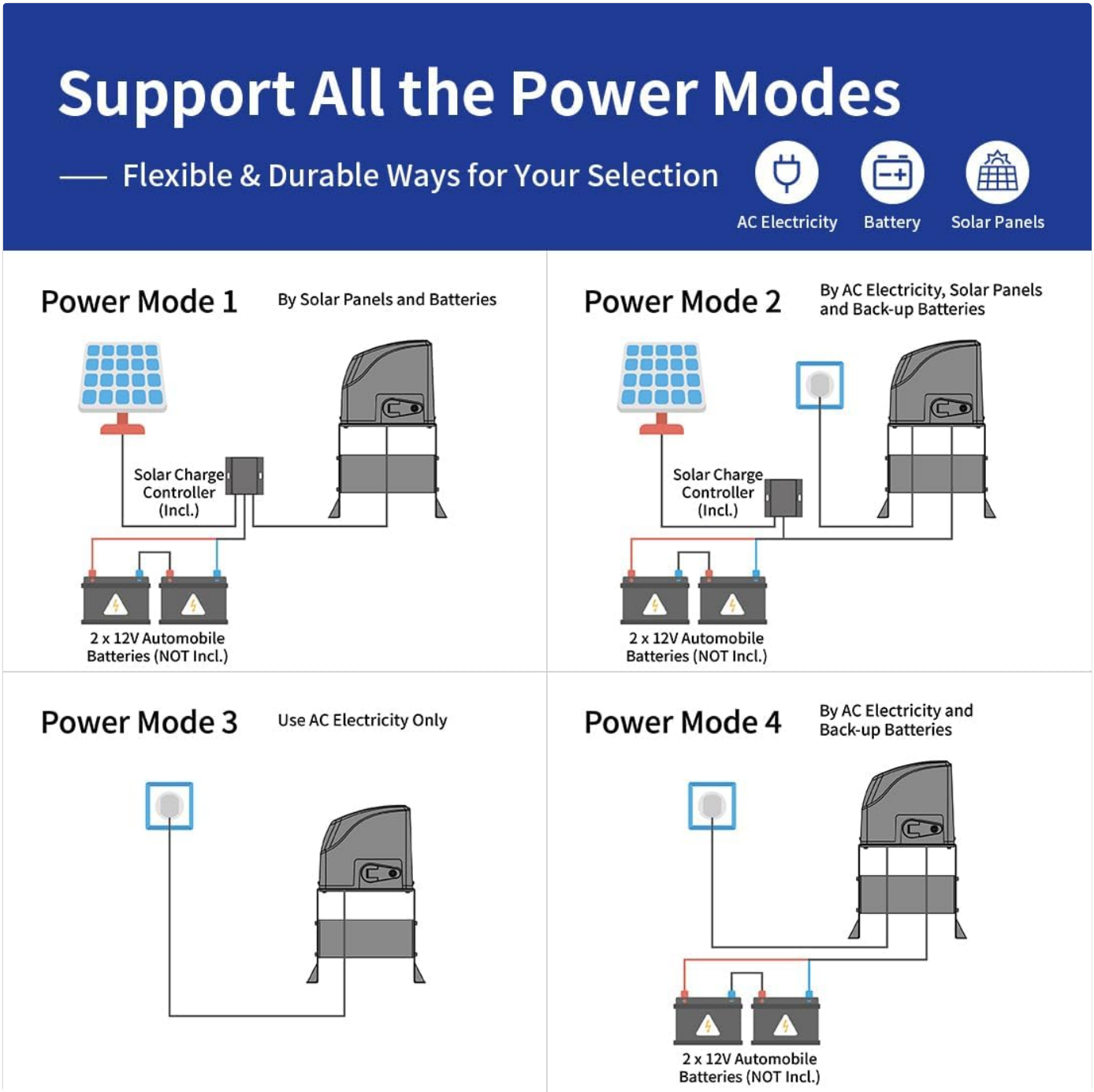


Figure 3: Diagrams showing various power modes: Solar Panels and Batteries, AC Electricity with Solar Panels and Batteries, AC Electricity Only, and AC Electricity with Backup Batteries.

Safety and Security Features

The DKC500S incorporates advanced safety and security features. Its unique 'midway mode' allows for partial gate opening for pedestrian or vehicle access. A safety stop-and-reverse module activates upon detecting obstructions during gate movement. The 'auto-close' function ensures the gate secures the property after a set time. 'Soft start and soft stop' functions protect the motor and extend its lifespan. An emergency manual release key is included for power outages.



Figure 4: Visual representation of key features: Self-closing Setting, Midway Mode, Obstacle Adjusting, Soft Start & Soft Stop, TOPENS Advanced Security Code, and Solar Panel Included.

Wide Application Compatibility

This gate opener is designed for various types of driveway sliding gates, including those made of steel, wood, or vinyl, and shaped as tube, panel, or chain-link. Its versatility makes it suitable for a broad range of installations.



Figure 5: Collage showing the TOPENS DKC500S installed on different types of sliding gates, including wooden, metal, and chain-link designs.

Setup and Installation

The TOPENS DKC500S is designed for straightforward DIY installation. No welding or high-voltage electrical connections are required. The full mounting hardware is included. For detailed step-by-step instructions, refer to the user manual and the official installation video.

Video 1: Official TOPENS DKC500S Solar Automatic Sliding Gate Opener installation guide. This video provides visual instructions for setting up the gate opener system.

Operating Instructions

Operating the DKC500S is simple using the provided remote controls. Pressing the remote button will automatically open or close your gate. The system also supports a 'midway mode' for partial opening, which can be activated via the remote

or other compatible accessories.



Figure 6: A person operating the gate opener from inside a vehicle using the remote control, demonstrating the ease of use.

Maintenance

To ensure optimal performance and longevity of your TOPENS DKC500S gate opener, regular maintenance is recommended:

- **Cleanliness:** Keep the motor unit and the gate track free from debris, dirt, and leaves.
- **Chain Tension:** Periodically check the tension of the drive chain. It should have a slight slack, but not be too loose or too tight. Refer to the installation video for proper tensioning.
- **Battery Check:** If using battery power, ensure batteries are properly charged, especially during periods of low sunlight.
- **Obstruction Sensors:** Test the safety stop-and-reverse function regularly by placing a small, soft object in the gate's path to ensure it detects obstructions and reverses.

- **Manual Release:** Familiarize yourself with the manual release key for emergency operation during power outages.

Troubleshooting

If you encounter issues with your gate opener, consider the following common troubleshooting steps:

- **Gate Not Responding:** Check power supply (AC or battery). Ensure remote control batteries are not depleted. Verify the manual release is fully engaged (if applicable).
- **Gate Stops Unexpectedly:** Check for obstructions in the gate's path. Ensure safety sensors (if installed) are clean and properly aligned.
- **Motor Running but Gate Not Moving:** Inspect the drive chain for proper engagement with the motor's sprocket and ensure it's not broken or dislodged.
- **Intermittent Operation:** This could indicate low battery charge (for solar/battery systems) or interference with remote signals.

For more complex issues or persistent problems, please refer to the detailed troubleshooting section in the user manual or contact TOPENS customer support.

Specifications

Specification	Value
Manufacturer	TOPENS
Model Number	DKC500S
Item Weight	54.4 pounds
Product Dimensions	14.4 x 5.6 x 18.6 inches
Motor Power	1/4 HP 180W DC
Max. Gate Weight	1300 pounds
Max. Gate Length	40 feet
Power Modes	AC Electricity, Solar, Battery
Included Components	2 x Emergency Release Key, 1 x Full Set of Required Installation Hardware
Batteries Required	Yes (6 CR2 batteries included for remotes; 2 x 12V 12Ah automotive/marine batteries for main unit not included)

Warranty and Customer Support

TOPENS provides a 12-month warranty for the DKC500S Solar Sliding Gate Opener. In addition, customers benefit from outstanding technical support. For any questions, assistance with installation, or troubleshooting, please visit the TOPENS

website to download the user manual, watch installation videos, or contact their dedicated support specialists for professional and timely solutions.

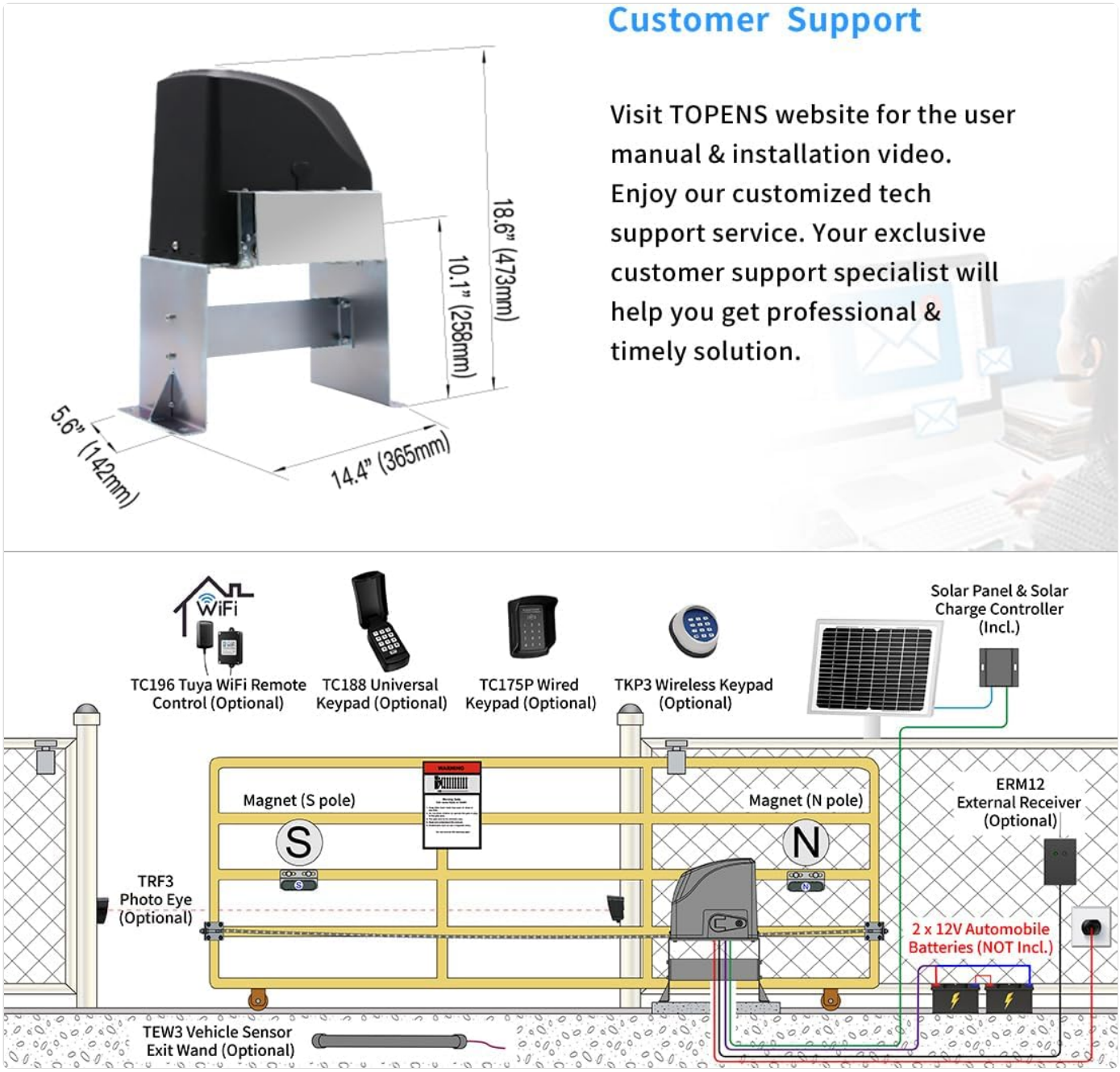


Figure 7: Image highlighting customer support information and a diagram of optional accessories available for the gate opener system.

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