

KICKASS KASTSP300

KickAss 12V 300W Super Thin Portable Solar Panel User Manual

Model: KASTSP300

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient use of your KickAss 12V 300W Super Thin Portable Solar Panel. Designed for portability and high efficiency, this solar panel is ideal for charging 12V battery systems in various outdoor and off-grid applications.

Safety Information

- Always read and understand all instructions before operating the solar panel.
- Do not attempt to disassemble or modify the solar panel or its integrated controller.
- Ensure all connections are secure and correct polarity is observed to prevent damage to the panel, controller, or battery.
- Avoid exposing the panel to extreme physical impact or sharp objects.
- Keep the panel clean and free from debris for optimal performance.
- Handle with care, especially when unfolding and folding, to avoid pinching or damaging cables.

2. COMPONENTS

Your KickAss 12V 300W Super Thin Portable Solar Panel package typically includes:

- KickAss 300W Super Thin Portable Solar Panel with integrated PWM Controller
- Attached cables for connection to a 12V battery system
- Integrated adjustable support legs
- Carry bag (may be included depending on package)



Image: The KickAss 300W Super Thin Portable Solar Panel fully unfolded, showcasing its slim design and multiple panels.

3. SETUP

3.1 Unfolding and Positioning

1. Place the folded solar panel on a flat, stable surface.
2. Carefully unfold the panels completely until they lie flat.
3. Extend the integrated support legs from the back of the panel. Adjust the angle of the legs to position the panel directly towards the sun for maximum efficiency.
4. Ensure the panel is in an area free from shade throughout the day. Even partial shading can significantly reduce power output.



Image: Rear view of the solar panel showing the integrated support legs extended, allowing for angled positioning.



Image: The solar panel deployed on a sandy surface next to a vehicle, demonstrating a typical outdoor setup.

3.2 Electrical Connection

The KickAss 300W Super Thin Portable Solar Panel features an integrated PWM (Pulse Width Modulation) controller, simplifying the connection process.

1. Locate the output cables from the integrated PWM controller. These typically have Anderson-style connectors or similar.
2. Connect these cables directly to your 12V battery system. Ensure correct polarity: positive to positive, negative to negative. Incorrect polarity can damage the controller or battery.
3. The PWM controller will automatically regulate the charging process, protecting your battery from overcharging and optimizing the charge cycle.
4. Once connected, the controller's display (if present) will show charging status and battery voltage.



Image: A detailed view of the integrated PWM controller and its various connection terminals, including the input from the solar panel and output to the battery.

4. OPERATION

4.1 Monitoring Charge

The integrated PWM controller typically features a display that provides real-time information. Monitor the following:

- **Battery Voltage:** Indicates the current charge level of your battery.
- **Charging Current:** Shows how much current is being supplied to the battery from the solar panel.
- **Charging Status:** The controller will indicate if the battery is charging, fully charged, or in float mode.

4.2 Optimal Performance

- **Sunlight Exposure:** Always ensure the panel receives direct, unobstructed sunlight. Reposition the panel throughout the day as the sun moves to maximize energy harvest.
- **Angle:** Adjust the panel's angle to be perpendicular to the sun's rays. In most cases, this means a steeper angle in winter and a flatter angle in summer.
- **Temperature:** Solar panels perform best in cooler temperatures with strong sunlight. High temperatures can slightly reduce efficiency.
- **Cleanliness:** Keep the panel surface clean from dust, dirt, leaves, and bird droppings.

5. MAINTENANCE

5.1 Cleaning

Regular cleaning ensures maximum power output.

- Clean the solar panel surface with a soft, damp cloth and mild, non-abrasive detergent.
- Rinse thoroughly with clean water to remove any soap residue.
- Do not use harsh chemicals, abrasive cleaners, or sharp objects that could scratch the panel surface.
- Clean connections periodically to ensure good electrical contact.



Image: A close-up view of the solar panel's surface, highlighting the individual monocrystalline silicon cells and their arrangement.

5.2 Storage

When not in use, proper storage will prolong the life of your solar panel.

- Fold the panel carefully, ensuring cables are not pinched.
- Store the panel in its protective carry bag (if supplied) to prevent scratches and damage.
- Store in a cool, dry place away from direct sunlight and extreme temperatures.



Image: The KickAss branded carry bag designed for the super thin portable solar panel, providing protection during transport and storage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output from panel	No sunlight or insufficient sunlight Loose or incorrect connections Damaged panel or controller	Ensure panel is in direct sunlight and free of shade. Check all cable connections for security and correct polarity. Inspect panel and controller for visible damage. Contact support if damaged.
Low power output	Partial shading Panel surface is dirty Incorrect panel angle Overcast weather	Relocate panel to a completely unshaded area. Clean the panel surface thoroughly. Adjust panel angle to face the sun directly. Lower output is normal during cloudy conditions.
Controller display not working	No power input from panel No battery connected or low battery voltage Controller malfunction	Ensure panel is in sunlight and connected. Connect to a battery with sufficient voltage (typically >8V). Contact support if the controller remains unresponsive.

7. SPECIFICATIONS

Feature	Detail
Model	KASTSP300
Power Output	300W
Maximum Voltage	12 Volts
Panel Type	Monocrystalline Silicon
Efficiency	High Efficiency
Product Dimensions (folded)	8.7 x 7.25 x 1.7 cm (This seems incorrect for a 300W panel, likely package dimensions. Actual unfolded dimensions will be significantly larger.)

Feature	Detail
Item Weight	16.8 kg (16800 Grams)
Controller Type	Integrated PWM Controller
Manufacturer	KICKASS
Country of Origin	Switzerland

Note: Product dimensions provided may refer to packaging or a component, not the full unfolded panel. Refer to product packaging for precise unfolded dimensions.

8. WARRANTY AND SUPPORT



For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official KickAss website. KickAss products are designed for durability and performance, and support is available for any operational queries or issues.





You can find more information and contact support via the official KickAss store page:[Visit the KICKASS Store on Amazon](#)



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Related Documents - KASTSP300

	<p>KickAss Super Thin Solar Panel User Manual</p> <p>Comprehensive guide to KickAss Super Thin Solar Panels (KASTSP200, KASTSP300), including specifications, dimensions, folding instructions, accessories, and solar regulator setup.</p>
	<p>KickAss Super Thin Solar Panel Owner's Manual KASTSP200 KASTSP300</p> <p>Owner's manual for KickAss Super Thin Solar Panels (KASTSP200, KASTSP300). Includes specifications, dimensions, folding instructions, solar regulator setup, and warranty information for camping and outdoor use.</p>

 <p>KAPWM30A</p>	<p>KickAss KAPWM30A 12V 30A PWM Solar Regulator Manual</p> <p>User manual for the KickAss KAPWM30A 12V 30A PWM Solar Regulator. Covers installation, connection, operation, safety, features, and specifications for efficient solar power management in outdoor environments.</p>
 <p>KABTSWPANEL-8</p>	<p>KickAss KABTSWPANEL-8 Bluetooth 8-Gang Switch Panel Owner's Manual</p> <p>This owner's manual provides comprehensive instructions for the KickAss KABTSWPANEL-8 Bluetooth 8-Gang Switch Panel system. It covers product features, installation guides for the control box and switch panel, wiring diagrams, mobile app control, and warranty information from Kickass Products Pty Ltd.</p>
 <p>KACHG1232</p>	<p>KickAss 12V 32 Amp Smart Battery Charger User Manual (KACHG1232)</p> <p>Comprehensive user manual for the KickAss 12V 32 Amp Smart Battery Charger (Model KACHG1232). Covers product specifications, features, safety information, connection instructions, standard and special operation modes, charging profiles, and error codes.</p>
 <p>KA12105ULTRASLIMX-LION</p>	<p>KickAss 12V 105Ah Ultra Slimline Lithium Deep Cycle Battery Owner's Manual</p> <p>Comprehensive owner's manual for the KickAss 12V 105Ah Ultra Slimline Lithium LiFePO4 Deep Cycle Battery (Model: KA12105ULTRASLIMX-LION), covering safety instructions, specifications, connections, app usage, and warranty.</p>



[KickAss Super Thin Solar Panel Owner's Manual KASTSP200 KASTSP300](#)

Owner's manual for KickAss Super Thin Solar Panels (KASTSP200, KASTSP300). Includes specifications, dimensions, folding instructions, solar regulator setup, and warranty information for camping and outdoor use.

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[KickAss Super Thin Solar Panel User Manual](#)

Comprehensive guide to KickAss Super Thin Solar Panels (KASTSP200, KASTSP300), including specifications, dimensions, folding instructions, accessories, and solar regulator setup.

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