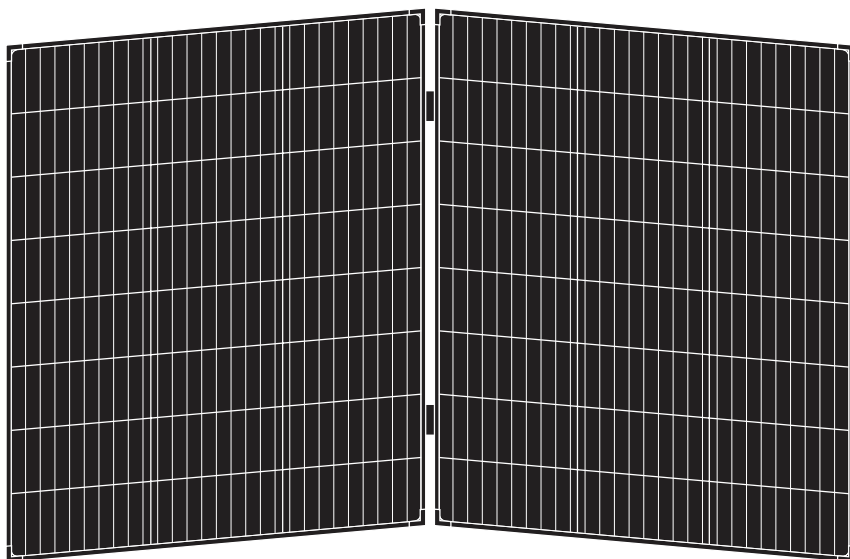


KINGS^{A D V E N T U R E}

USER MANUAL



FOLDING SOLAR PANELS

SKUS: AKSR-PN200W_01 & AKSR-PN300W_01

**PLEASE READ AND UNDERSTAND THIS MANUAL
COMPLETELY BEFORE USING THIS PRODUCT.**

1. WARNINGS & SAFETY INFO

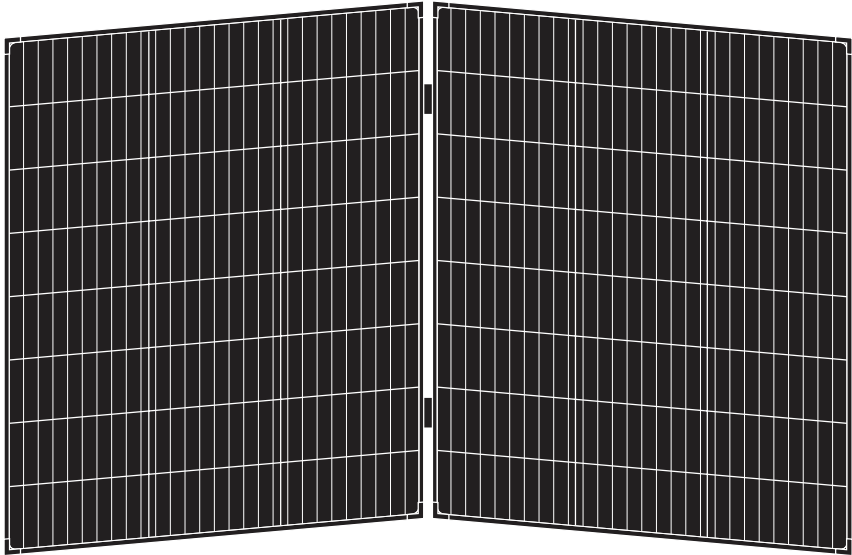


SAFETY WARNING



- Keep the solar panel away from liquids at all times.
- Keep the solar panel clean and always check connectors for debris before connecting.
- This product is not intended to be used by children. In addition to this, adults with reduced physical or mental capabilities, or those who are under the influence of drugs or alcohol should not use the product.
- Only use the solar panel to charge 12V, rechargeable batteries.
- Lead acid batteries produce harmful explosive gasses. The battery should be mounted in a well ventilated area, away from possible ignition sources.
- Take care when maneuvering & setting-up the Solar Panel as to not damage the unit.
- Never connect the Solar Panel directly (without a regulator) to a battery or other load.
- Tampering with or modifying the solar panel or wiring will void warranty.
- When transporting the solar panel, firmly secure the panel so that it will not move around or collide with other objects.
- Do not use the solar panel or wiring if it is damaged or compromised in any way.
- This is an unregulated solar panel - ensure you connect a suitable regulator (available separately) to prevent damage to the battery

2. PRODUCT CONTENTS



Folding Solar Panel with Support Legs



3. SPECIFICATIONS

Model	AKSR-PN200W_001	AKSR-PN300W_001
Rated Maximum Power (Pmax)	200W	300W
Power (Pmax)	+/-5%	
Current at Pmax	9.90A	14.75A
Voltage at Pmax (VMP)	20.40V	20.40V
Short Circuit Current (ISC)	11.01A	16.52A
Open Circuit Voltage (VOC)	24.2V	24.2V
ISC Temperature Coefficient	0.05 %/°C	
VOC Temperature Coefficient	-0.39 %/°C	
Pmax Temperature Coefficient	-0.44 %/°C	
Series Fuse Rating	15A	20A
Dimensions Open	1410 x 800 x 18mm	2115 x 800 x 18mm
Dimensions Closed	705 x 800 x 40mm	705 x 800 x 60mm
Weight	8.9kg	13.3kg
Standard Test Condition: 1000W/m², 25°C, AM1.5		

4. CHOOSING A SUITABLE REGULATOR

Warning: *This is an unregulated solar panel - ensure you connect a suitable regulator (available separately) to prevent damage to the battery*

- These panels are compatible with PWM and MPPT regulators and can be used on the solar input of DC-DC Chargers.
 - Ensure the regulator or DC-DC Charger has an input voltage limit higher than the Open Circuit Voltage (VOC) of the panel
 - Ensure the regulator or DC-DC Charger has an input current limit higher than the Short Circuit Current (ISC) of the panel
 - Ensure the regulator or DC-DC Charger has an input power limit higher than the power rating of the panel
 - Ensure the regulator or DC-DC Charger is suitable for the battery type you are charging (AGM, GEL, LiFePO4 etc)
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5. INSTRUCTIONS

Folding Solar Panels perform at their peak when facing directly towards the sun.

SETTING UP THE PANEL

- Remove elastic strap from the panel and fold open the panel
 - Lift all legs to the open position. When open, the legs will lock into place
 - Angle the solar panel so its directed toward the sun
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CONNECTING SOLAR PANEL

- Ensure you're using a suitable solar regulator (available separately) to charge your battery - do not connect the solar panel directly to a battery
 - First connect the regulator as close as possible to the battery, then connect the regulator to the solar panel using the quick connect plugs - if more length is required between the solar panel and solar regulator, use a Solar Extension Lead (available separately)
-

DISCONNECTING & STORING THE SOLAR PANEL

- Disconnect the solar panel from the regulator, before disconnecting the regulator from the battery
 - Place the optional accessories separately in the front pocket of the carry bag
 - Note: Never store your solar panel with any extra wire connected to the quick connect plug
-

6. TROUBLESHOOTING

Problem	Cause	Solution
Solar not Charging	Inadequate sunlight	Position panel in full sun
	Plug terminals incorrect polarity	Inspect the quick connect plug terminals, ensuring the polarity (+ and -) are correct. Change if incorrect.
	Plug terminals are not correctly seated	Ensure the terminals in the quick connect plug are firmly connected. To seat the terminals push them from the back of the plug until you hear a 'click'
	Plug terminals have corroded	Clean corrosion from plug terminals
	Panel has been incorrectly connected to 12V system	Ensure the panel has been connected to the correct terminals on the solar regulator
	No open Circuit Voltage recorded on panel	Ensure regulator is suitable for solar and battery type. Use a multimeter or voltmeter to measure the voltage of the panel at the quick connect plug. The meter should display 18~25V in full sun. If there is no voltage present, there may be an internal short circuit or broken circuit. Contact customer service for further assistance.

24 MONTH LIMITED WARRANTY

WARRANTY PERIOD:

Full 24 month warranty from date of purchase against all manufacturing defects.

WHAT DOES THE WARRANTY COVER?

Under normal usage conditions, this warranty covers:

- a. Any defect in design or manufacture which results in the product failing to perform substantially as described in authorised advertising or literature.
- b. We will either repair or replace the product at our discretion providing that the fault is found to have been caused by a design or manufacturing defect and not misuse or tampering.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits provided to you as the consumer by this warranty are in addition to other rights and remedies available to you under the law.

THE WARRANTY DOES NOT COVER:

- a. Any damage resulting from improper use
 - b. Faulty installation or modification made during installation
 - c. The cost of removing and reinstalling the product
 - d. Travel and /or other expenses due to customer's remote location
 - e. Transport charges and damage in transit. It is your responsibility to deliver and pick up your product, including any costs associated with the postage of your repair or replacement product. If you do freight your product we recommend that you insure against loss or damage.
 - f. Any loss directly or indirectly associated with the product failing to operate.
 - g. Damage caused by mould, insects, animals, misuse, incorrect operation, adverse weather, accidents and fair wear and tear
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TO MAKE A CLAIM, PLEASE ENSURE YOU RETAIN YOUR SALES RECEIPT OF PURCHASE

1800 88 39 64



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