

# **KINGS**<sup>ADVENTURE</sup>

## **USER MANUAL**



**SEMI-FLEXIBLE  
SOLAR PANEL**

SKUS: AKSR-FL160W\_03

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

## 1. WARNINGS & SAFETY INFO



### SAFETY WARNING



- Keep the solar panel is clean at all times (always check connectors to ensure they're free of grit before plugging them in).
- This appliance is not intended to be used by people (including children) with reduced physical or mental capabilities, or those who are under the influence of drugs or alcohol.
- All lead-acid batteries produce harmful, explosive gases. The battery should be mounted in a well-ventilated area, as far as possible from any ignition sources. Do NOT smoke or have a naked flame in the vicinity of the battery under charge.
- Ensure nothing sharp or heavy could potentially damage the solar panel during transport or storage.
- Only use the solar panel to charge 12V batteries.
- Do NOT use the solar panel to charge non-rechargeable batteries. Doing so may result in harm to the user and/or damage the solar panel and controller.
- Do NOT use different types of panels on the same electrical system.

## 2. PRODUCT CONTENTS



1 x Semi-Flexible Solar Panel



# 3. INSTRUCTIONS FOR USE

## UNPACKING YOUR SOLAR PANEL

- Find a suitable location to unpack the solar panel, away from sharp objects, liquids and other hazards that could damage your solar panel. Ensure there is sufficient space for the solar panel to be spread out fully.
  - Take care with the panel making sure it does not bend or flex excessively or repetitively as this may cause irreversible damage to the panel, reducing overall efficiency and weakening the panels internal structure.
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## MOUNTING YOUR SOLAR PANEL

- When mounting the panel ensure air is able to pass over at least the surface that is exposed to sunlight to increase the panels performance.
  - Mount on either a flat or slightly curved surface that can fully support the entire panel.
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# 4. SPECIFICATIONS

Rated Maximum Power (Pmax)	16000W
Power (Pmax)	+/-5%
Current at Pmax (IMP)	8.21A
Voltage at Pmax (VMP)	19.5V
Short Circuit Current (ISC)	8.98A
Open Circuit Voltage (VOC)	23.4V
ISC Temperature Coefficient:	0.05%/C
VOC Temperature Coefficient:	-0.28%/C
Pmax Temperature Coefficient:	-0.36%/C
Series Fuse Rating	15A
Dimensions Open	1200 x 780 x 2.5mm
Weight	2.8kg

**Standard Test Condition: 1000W/m², 25°C, AM1.5**

## 5. 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.

# 12 MONTH LIMITED WARRANTY

## WARRANTY PERIOD:

Full 12 month warranty from date of purchase against all manufacturing defects.

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## 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.

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## 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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