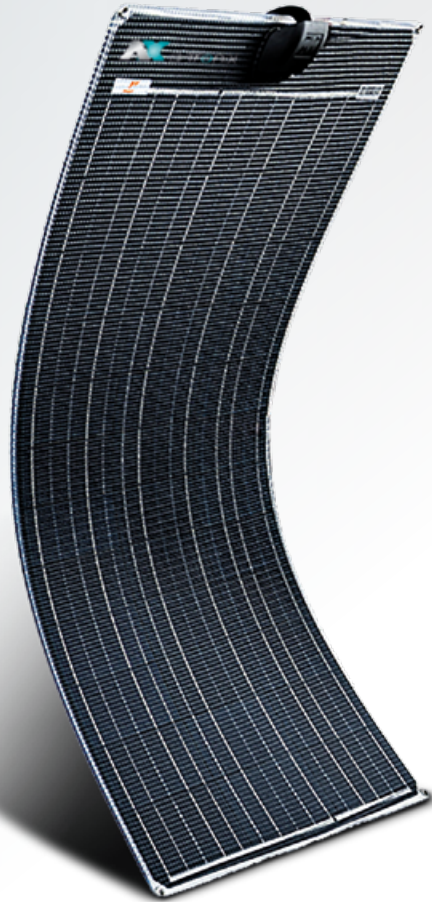




# FLEXIBLE SOLAR MODULE

User Manuel

**PPS Solar flex**



**Model**

**Article number**

a-Tronix PPS Solar flex 100W

9885607

## INTRODUCTION

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### **Thank you very much,**

for purchasing our mobile solar module PPS Solar flex of the a-TroniX series.  
It is a flexible solar panel that can be optimally attached to curved surfaces. This makes it particularly suitable as a means of generating electricity for use on a boat or caravan.

### **Read carefully before use!**

Read this manual carefully before installation.  
It contains important regulations and instructions for the use of this product and provides technical support for the operator of the unit.

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# Table of contents

	Page
<b>1. Symbols used in this guide</b>	3
<b>2. Safety instructions</b>	4
<b>3. Installation notes</b>	6
3.1 Mounting with glue	6
<b>4. Environment</b>	7
<b>5. Specification</b>	7

## 1. Symbols used in this guide



**CAUTION:**

General warning of danger.



**NOTES:**

This symbol indicates texts, notes or tips.

Failure to observe precautions may result in damage to the product and/or its functions or to something in its vicinity.



**ENVIRONMENT:**

Indicates recycling information.



Indicates assemblies or parts that must be disposed of properly.  
Do not dispose of them with household waste.

## 2. Safety instructions

Please keep these operating instructions and read them before use.  
Observe the safety instructions.

Installation is the customer's responsibility within the framework of the Low Voltage Directive 2014/35/EU and not the responsibility of AKKU SYS Akkumulator- und Batterietechnik Nord GmbH.

AKKU SYS Akkumulator- und Batterietechnik Nord GmbH is not responsible for any damage caused by the user's failure to follow the instructions and improper handling.



### **CAUTION:**

If several modules are connected in series, the total voltage increases (Low Voltage Directive 2014/35/EU). The installation should then only be carried out by a specialist company. In case of injuries and accidents of any kind, the installer himself is liable.

- When you receive the goods, make sure that you use suitable tools to unpack them in order to prevent damage to the module. Check for any damage that may have occurred during transport. If the product is damaged or does not function properly, do not use it. Contact your supplier.
- Make sure that no sharp or heavy objects damage the surface of the solar module.  
Do not drill any additional holes on the frame or the surface of the module.
- Prevent rain, moisture or water from entering the electrical connections and do not carry out any work on your solar system in rain or strong winds.
- Transport and handle the modules as carefully as possible on the outside of the frame. Do not grip in the middle of one side of the module in order not to exceed the max. bending radius. It is recommended to transport the modules and mount them on a roof with two people if possible.  
Do not walk or stand on the modules.
- Use only approved, insulated tools and do not touch exposed electrical conductors.
- When wiring the connections, ensure the correct polarity to avoid short circuits.  
For the electrical connections of your solar system, use only modules of the same type and the cables and connections intended for them.  
The recommended cable cross-section is 4 mm<sup>2</sup>.

- Avoid contact of products with corrosive substances such as acids, alkalis and oils as well as with paint and adhesives. Do not place the modules near places where flammable gases can escape.
- Avoid direct sunlight on the back of the module and refrain from artificially amplifying the sunlight on the module (e.g. by mirrors).
- Charging a battery is only possible with a charge controller connected (not included in the scope of delivery).
- When disconnecting the modules from the solar system, make sure that the charge controller (not included in the scope of delivery) is disconnected from the power supply on both sides.



**CAUTION:**

In general, follow the manufacturer's safety instructions during installation and maintenance and use suitable fall protection when working on the roof.



**NOTE:**

Check the module surfaces regularly.

Remove heavy soiling such as bird droppings etc. immediately so as not to impair performance.

Clean the modules with lime-free running water.

Cleaning with a high-pressure cleaner or a washing machine can damage the modules.

## 3. Installation notes

When installing the a-TroniX PPS solar flex module, make sure that it is in direct sunlight and free from shade for as long as possible.

In order to obtain the highest possible output, the solar module should be oriented towards the north in southern latitudes and towards the south in northern latitudes.

### 3.1 Mounting with glue

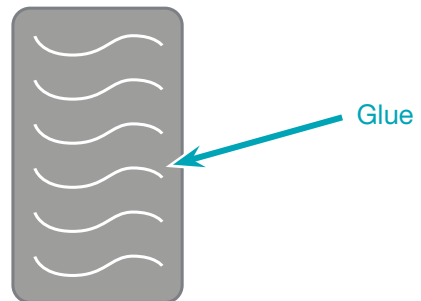
The surface should be thoroughly cleaned and free of oil and dust before mounting

#### Material required:

- Adhesive Glue (e.g. Sikaflex)
- Caulking Gun
- Putty Knife

#### Mounting:

- Apply the adhesive to the back of the module in either horizontal or vertical lines.
- Leave a gap of 5 cm between the adhesive and the outer edge of the module.
- When applying the glue, try not to interrupt the glue line.
- After applying the adhesive, place the module on the cleaned mounting surface and apply even pressure to the entire surface of the module.
- It is best to remove any glue that may escape from the sides with a spatula. Do not use chemicals.
- Do not move the module after bonding and allow the adhesive to cure completely.



#### NOTE:

Other mounting forms, e.g. attachment via the integrated eyelets are possible.

## 4. Environment



The packaging is recyclable. After unpacking, please keep it for reuse or dispose of it properly.



Do not dispose of waste electrical and electronic equipment (WEEE) in household waste. Observe the local regulations for disposal.

For more information, contact us on the hotline +49 4101/376760, at [info@akkusys.de](mailto:info@akkusys.de) or use the QR code.



## 5. Specification

Model	a-TroniX PPS Solar flex
Article number	9885607
Photovoltaic cell	100W
Cell type	mono
Cell per modul	3x12
Max. Power (W)	100
Max. Power voltage (V)	20
Max. Power current (A)	5
Open circuit voltage (V)	23,6
Short circuit current (A)	5,3
Modul size (mm)	510 x 1050 x 4
Operating temperature (°C)	-40 ~ +85
Max. System voltage (V)	200

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