



# MOBILE SOLAR MODULE

User Manuel

## PPS Solar case



Model	Article number
a-TroniX PPS Solar case 2x50W	9885604
a-TroniX PPS Solar case 3x50W	9885605
a-TroniX PPS Solar case 2x135W	9885606

## INTRODUCTION

The publication and copyright of this documentation remain with the company:

AKKU SYS Akkumulator- und Batterietechnik Nord GmbH  
Verbindungsweg 23 · 25469 Halstenbek / Hamburg · GERMANY  
Phone +49 4101 | 3 76 76-0 / Fax +49 4101 | 3 76 76-66  
info@akkusys.de / www.akkusys.de

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

for purchasing our mobile solar module PPS solar case from the a-TroniX series. It is a handy, portable solar panel and offers you the possibility for quick battery charging, e.g. when camping.

### **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.

### **All rights reserved.**

AKKU SYS Akkumulator- und Batterietechnik Nord GmbH cannot be held responsible for any inaccuracies or inappropriate information in this instruction manual. The information in this document is subject to change without notice, but there is no obligation to update it on an ongoing basis. We reserve the right to make design and equipment changes to improve the production process or the product. AKKU SYS GmbH accepts no liability for errors in this operating manual and any consequences resulting therefrom.

# Table of contents

	Page
<b>1. Symbols used in this guide</b>	3
<b>2. Safety instructions</b>	4
<b>3. Common design of the foldable solar panel</b>	5
<b>4. Setup and operation</b>	6
<b>5. Troubleshooting</b>	7
<b>6. Environment</b>	7
<b>7. 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 this user manual and read it before use. Observe the safety instructions.

- If the product is damaged or does not work properly, do not use it. Contact your supplier.
- Prevent rain, moisture or water from entering the electrical connections.
- Make sure that no sharp objects damage the surface of the solar module.
- The product does not contain any parts that require maintenance. Do not disassemble the module, attempt to repair it or touch exposed electrical conductors.
- Ensure correct polarity when wiring the connections. To avoid short circuits, make sure that the battery and load connections are secure.
- Avoid contact of products with corrosive substances such as acids, alkalis and oils, etc.
- Charging a battery is only possible with the charge controller connected (not included in the scope of delivery).
- The company is not responsible for damage caused by the user's failure to follow the instructions.



**CAUTION:**

This appliance generates electric current.  
Do not leave it in operation unattended.  
It can be dangerous for children and adults.



**NOTE:**

Dust and dirt covering the surface of the solar module should first be cleaned with a soft brush. Then wipe the surface of the module with a damp cloth. Bird droppings and adhesives should be removed from the surface of the module as soon as possible so as not to impair performance.

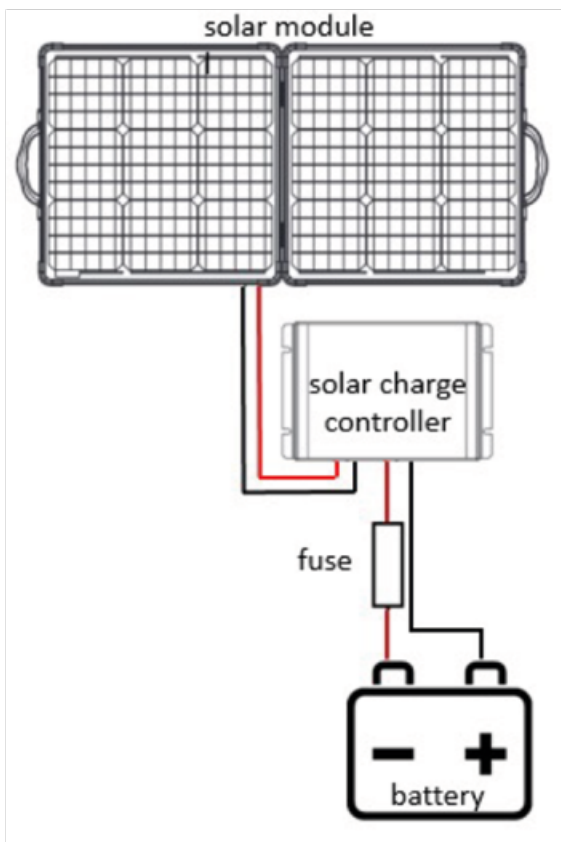


**CAUTION:**

As the system contains sophisticated electronic components, it is essential to prevent moisture from entering the unit.

### 3. Common design of the foldable solar panel

(Other applications are possible)



## 4. Setup and operation

Place the a-TroniX PPS solar case on a flat surface with direct sunlight. Make sure that no branches or other obstacles cast shadows on the solar module.

In order to obtain the greatest possible output, the solar module should be aligned as perpendicularly as possible to the sun.



### NOTE:

- Make sure that the connected cables do not pose a risk of accident and that they cannot be damaged by being accidentally stepped on or run over. Avoid water getting into the connection sockets.
- Using a suitable charge controller (not included), this solar module can be used to charge all common batteries.
- Connect the battery to be charged to the correct outputs of the charge controller. Refer to the corresponding operating instructions of the solar charge controller.
- When wiring the connections, ensure that the polarity is correct to avoid short circuits.

## 5. Troubleshooting

Error	Troubleshooting	Solution
The charging indicator does not light up even though the module is facing directly towards the sun.	Problem with the connections.	Make sure that the connections have not been interchanged. Check whether the solar charge controller is defective and replace it if necessary.

## 6. 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.



## 7. Specification

Model	a-TroniX PPS Solar bag		
Article number	9885604	9885605	9885606
Photovoltaic cell	2x 50W	3x 50W	2x 135W
Cell type	mono	mono	mono
Max. Power (W)	100	150	270
Max. Power voltage (V)	19,8	19,8	19,8
Max. Power current (A)	6,57	7,57	13,64
Open circuit voltage (V)	23,3	21,6	23,3
Short circuit current (A)	7,73	8,91	16,05
Modul size folded (mm)	550 x 520 x 60	690 x 505 x 90	1040 x 680 x 35
Modul size unfolded (mm)	550 x 1043 x 30	690 x 1043 x 30	1040 x 1370 x 35
Weight (kg)	9,8	23	21,3

# Other manufacturers and product ranges you will find in our AKKU SYS complete catalogue:

Go to our catalogue:



**AKKU SYS Akkumulator- und Batterietechnik Nord GmbH**

Verbindungsweg 23 · 25469 Halstenbek / Hamburg · GERMANY

Tel. +49 4101 | 3 76 76-0 / Fax +49 4101 | 3 76 76-66 / info@akkusys.de / www.akkusys.de