

SOLARIF

RISK MANAGEMENT

1. Appendix I - Certified Modules

Certificate holder: **Zhuhai Fushan Aiko Solar Technology Co., Ltd.**

Certificate number: **SOLARIF20240123002**

Certified factory: **Zhuhai Fushan Aiko Solar Technology Co., Ltd., Production Line #1**

Valid from: **23 January 2024**

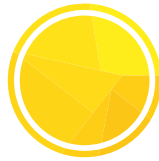
Expires on: **23 January 2025**

Dual-glass Bifacial modules	
Model	Power range
AIKO-Gxxx-MCH72Dw	xxx=625-645, in steps of 5

Dual-glass modules	
Model	Power range
184-AIKO-Axxx-MAH54Db	xxx=440-455, in steps of 5
184-AIKO-Axxx-MAH54Dw	xxx=445-460, in steps of 5
184-AIKO-Axxx-MAH72Dw	xxx=595-615, in steps of 5
188-AIKO-Axxx-MAH54Db	xxx=445-460, in steps of 5
188-AIKO-Axxx-MAH54Dw	xxx=450-465, in steps of 5
188-AIKO-Axxx-MAH72Dw	xxx=605-625, in steps of 5

Mono-glass modules	
Model	Power range
184-AIKO-Axxx-MAH54Mb	xxx=445-460, in steps of 5, 30 frame
184-AIKO-Axxx-MAH54Mb	xxx=445-460, in steps of 5, 35 frame
184-AIKO-Axxx-MAH54Mw	xxx=450-465, in steps of 5, 30 black frame
184-AIKO-Axxx-MAH54Mw	xxx=450-465, in steps of 5, 30 frame
184-AIKO-Axxx-MAH54Mw	xxx=450-465, in steps of 5, 35 frame
184-AIKO-Axxx-MAH72Mb	xxx=595-615, in steps of 5
184-AIKO-Axxx-MAH72Mw	xxx=600-620, in steps of 5, 350 mm cable
184-AIKO-Axxx-MAH72Mw	xxx=600-620, in steps of 5, 1400 mm cable
188-AIKO-Axxx-MAH54Mb	xxx=450-465, in steps of 5
188-AIKO-Axxx-MAH54Mw	xxx=455-470, in steps of 5, black frame
188-AIKO-Axxx-MAH54Mw	xxx=455-470, in steps of 5
188-AIKO-Axxx-MAH72Mw	xxx=610-630, in steps of 5, 350 mm cable
188-AIKO-Axxx-MAH72Mw	xxx=610-630, in steps of 5, 1400 mm cable

Certificate number: **SOLARIF20240123002**

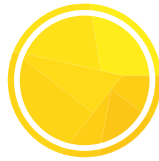


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RISK MANAGEMENT

DESIGN QUALIFICATION (IEC 61215/ IEC61730 Single Glass/1500V system voltage)	
Certification body	TÜV Rheinland
Certificate No	PV50546229
Date of issue	2023-09-14
Vaild until	2027-06-23
Testing according to	<ul style="list-style-type: none">• IEC 61215-1:2021• IEC 61215-1-1:2021• IEC 61215-2:2021• IEC 61730-1:2016• IEC 61730-2:2016• EN IEC 61215-1:2021• EN IEC 61215-1-1:2021• EN IEC 61215-2:2021• EN IEC 61730-1:2018• EN IEC 61730-2:2018
Certified PV module models	<p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells:</p> <ul style="list-style-type: none">• SG-Pxxx-MAH72Mw (xxx=525-560, in steps of 5, 144 cells)• SG-Pxxx-MAH60Mw (xxx=440-465, in steps of 5, 120 cells)• SG-Pxxx-MAH54Mw (xxx=395-420, in steps of 5, 108 cells)• SG-Axxx-MAH72Mw (xxx=550-605, in steps of 5, 144 cells)• SG-Axxx-MAH60Mw (xxx=460-500, in steps of 5, 120 cells)• SG-Axxx-MAH54Mw (xxx=415-450, in steps of 5, 108 cells)• SG-Bxxx-MAH72Mw (xxx=540-580, in steps of 5, 144 cells)• SG-Bxxx-MAH60Mw (xxx=450-480, in steps of 5, 120 cells)• SG-Bxxx-MAH54Mw (xxx=405-435, in steps of 5, 108 cells) <p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells:</p> <ul style="list-style-type: none">• SG-Pxxx-MAH72Mb (xxx=525-560, in steps of 5, 144 cells)• SG-Pxxx-MAH60Mb (xxx=440-465, in steps of 5, 120 cells)• SG-Pxxx-MAH54Mb (xxx=395-420, in steps of 5, 108 cells)• SG-Axxx-MAH72Mb (xxx=550-605, in steps of 5, 144 cells)• SG-Axxx-MAH60Mb (xxx=460-500, in steps of 5, 120 cells)• SG-Axxx-MAH54Mb (xxx=415-450, in steps of 5, 108 cells)• SG-Bxxx-MAH72Mb (xxx=540-580, in steps of 5, 144 cells)• SG-Bxxx-MAH60Mb (xxx=450-480, in steps of 5, 120 cells)• SG-Bxxx-MAH54Mb (xxx=405-435, in steps of 5, 108 cells) <p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells:</p> <ul style="list-style-type: none">• AIKO-Pxxx-MAH72Mw (xxx=525-560, in steps of 5, 144 cells)

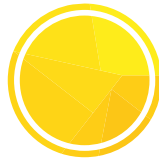
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	<ul style="list-style-type: none">• AIKO-Pxxx-MAH60Mw (xxx=440-465, in steps of 5, 120 cells)• AIKO-Pxxx-MAH54Mw (xxx=395-420, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mw (xxx=550-615, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mw (xxx=460-510, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mw (xxx=415-460, in steps of 5, 108 cells)• AIKO-Bxxx-MAH72Mw (xxx=540-580, in steps of 5, 144 cells)• AIKO-Bxxx-MAH60Mw (xxx=450-480, in steps of 5, 120 cells)• AIKO-Bxxx-MAH54Mw (xxx=405-435, in steps of 5, 108 cells)• AIKO-Pxxx-MAH72Mb (xxx=525-560, in steps of 5, 144 cells)• AIKO-Pxxx-MAH60Mb (xxx=440-465, in steps of 5, 120 cells)• AIKO-Pxxx-MAH54Mb (xxx=395-420, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mb (xxx=550-615, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mb (xxx=460-510, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mb (xxx=415-460, in steps of 5, 108 cells)• AIKO-Bxxx-MAH72Mb (xxx=540-580, in steps of 5, 144 cells)• AIKO-Bxxx-MAH60Mb (xxx=450-480, in steps of 5, 120 cells)• AIKO-Bxxx-MAH54Mb (xxx=405-435, in steps of 5, 108 cells) <p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells:</p> <ul style="list-style-type: none">• AIKO-Axxx-MAH72Mw (xxx=620,625, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mw (xxx=515,520, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mw (xxx=465, in steps of 5, 108 cells)
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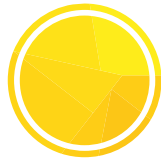


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RISK MANAGEMENT

DESIGN QUALIFICATION (IEC 61215/ IEC61730 Double Glass/1500V system voltage)	
Certification body	TÜV Rheinland
Certificate No	PV50586300
Date of issue	2023-09-28
Vaild until	2028-05-21
Testing according to	<ul style="list-style-type: none">• IEC 61215-1:2021;• IEC 61215-1-1:2021;• IEC 61215-2:2021;• IEC 61730-1:2016;• IEC 61730-2:2016;• EN IEC 61215-1:2021;• EN IEC 61215-1-1:2021;• EN IEC 61215-2:2021;• EN IEC 61730-1:2018;• EN IEC 61730-2:2018;
Certified PV module models	<p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells (Under STC):</p> <ul style="list-style-type: none">• AIKO-Axxx-MAH72Dw (xxx=585-620, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Dw (xxx=490-515, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Dw (xxx=440-465, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Db (xxx=585-620, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Db (xxx=490-515, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Db (xxx=440-465, in steps of 5, 108 cells) <p>With 1/2 cut of mono c-Si cells (Under BNPI):</p> <ul style="list-style-type: none">• AIKO-Axxx-MAH72Dw (xxx=615-650, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Dw (xxx=515-540, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Dw (xxx=460-485, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Db (xxx=615-650, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Db (xxx=515-540, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Db (xxx=460-485, in steps of 5, 108 cells)

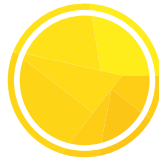
Certificate number: **SOLARIF20240123002**



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RISK MANAGEMENT

	<p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells (Under STC):</p> <ul style="list-style-type: none">• AIKO-Axxx-MAH72Dw (xxx=625, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Dw (xxx=520, in steps of 5, 120 cells) <p>With 1/2 cut of mono c-Si cells (Under BNPI):</p> <ul style="list-style-type: none">• AIKO-Axxx-MAH72Dw (xxx=655, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Dw (xxx=545, in steps of 5, 120 cells)
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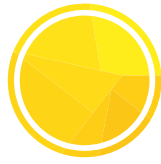


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RISK MANAGEMENT

AMMONIA CORROSION	
Certification body	TÜV Rheinland
Certificate No	PV50572635
Date of issue	2023-02-07
Vaild until	2027-06-23
Testing according to	<ul style="list-style-type: none">• IEC 62716:2013• EN 62716:2013
Certified PV module models	<p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells:</p> <ul style="list-style-type: none">• AIKO-Pxxx-MAH72Mw (xxx=525-560, in steps of 5, 144 cells)• AIKO-Pxxx-MAH60Mw (xxx=440-465, in steps of 5, 120 cells)• AIKO-Pxxx-MAH54Mw (xxx=395-420, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mw (xxx=550-610, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mw (xxx=460-510, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mw (xxx=415-460, in steps of 5, 108 cells)• AIKO-Bxxx-MAH72Mw (xxx=540-580, in steps of 5, 144 cells)• AIKO-Bxxx-MAH60Mw (xxx=450-480, in steps of 5, 120 cells)• AIKO-Bxxx-MAH54Mw (xxx=405-435, in steps of 5, 108 cells)• AIKO-Pxxx-MAH72Mb (xxx=525-560, in steps of 5, 144 cells)• AIKO-Pxxx-MAH60Mb (xxx=440-465, in steps of 5, 120 cells)• AIKO-Pxxx-MAH54Mb (xxx=395-420, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mb (xxx=550-610, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mb (xxx=460-510, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mb (xxx=415-460, in steps of 5, 108 cells)• AIKO-Bxxx-MAH72Mb (xxx=540-580, in steps of 5, 144 cells)

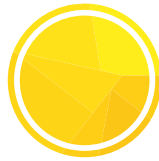
Certificate number: **SOLARIF20240123002**



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RISK MANAGEMENT

	<ul style="list-style-type: none">• AIKO-Bxxx-MAH60Mb (xxx=450-480, in steps of 5, 120 cells)• AIKO-Bxxx-MAH54Mb (xxx=405-435, in steps of 5, 108 cells)
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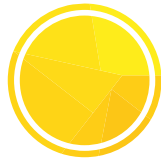


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RISK MANAGEMENT

DUST AND SAND	
Certification body	TÜV Rheinland
Certificate No	AK 50583708 0001
Date of issue	2023-05-08
Vaild until	/
Testing according to	<ul style="list-style-type: none">• IEC 60068-2-68:1994
Certified PV module models	<p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells:</p> <ul style="list-style-type: none">• AIKO-Axxx-MAH72Mw (xxx=525-560, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mw (xxx=440-465, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mw (xxx=395-420, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mw (xxx=550-615, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mw (xxx=460-510, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mw (xxx=415-460, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mw (xxx=540-580, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mw (xxx=450-480, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mw (xxx=405-435, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mb (xxx=525-560, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mb (xxx=440-465, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mb (xxx=395-420, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mb (xxx=550-615, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mb (xxx=460-510, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mb (xxx=415-460, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mb (xxx=540-580, in steps of 5, 144 cells)

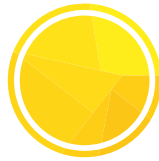
Certificate number: **SOLARIF20240123002**



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RISK MANAGEMENT

	<ul style="list-style-type: none">• AIKO-Axxx-MAH60Mb (xxx=450-480, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mb (xxx=405-435, in steps of 5, 108 cells)
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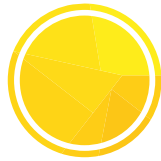


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RISK MANAGEMENT

SALT MIST CORROSION	
Certification body	TÜV Rheinland
Certificate No	PV 50572634
Date of issue	2023-05-08
Vaild until	2027-06-23
Testing according to	<ul style="list-style-type: none">• IEC 61701:2020• EN IEC 61701:2020
Certified PV module models	<p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells:</p> <ul style="list-style-type: none">• AIKO-Pxxx-MAH72Mw (xxx=525-560, in steps of 5, 144 cells)• AIKO-Pxxx-MAH60Mw (xxx=440-465, in steps of 5, 120 cells)• AIKO-Pxxx-MAH54Mw (xxx=395-420, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mw (xxx=550-615, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mw (xxx=460-510, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mw (xxx=415-460, in steps of 5, 108 cells)• AIKO-Bxxx-MAH72Mw (xxx=540-580, in steps of 5, 144 cells)• AIKO-Bxxx-MAH60Mw (xxx=450-480, in steps of 5, 120 cells)• AIKO-Bxxx-MAH54Mw (xxx=405-435, in steps of 5, 108 cells)• AIKO-Pxxx-MAH72Mb (xxx=525-560, in steps of 5, 144 cells)• AIKO-Pxxx-MAH60Mb (xxx=440-465, in steps of 5, 120 cells)• AIKO-Pxxx-MAH54Mb (xxx=395-420, in steps of 5, 108 cells)

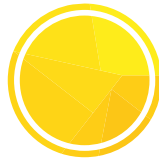
Certificate number: **SOLARIF20240123002**



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RISK MANAGEMENT

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| | <ul style="list-style-type: none">• AIKO-Axxx-MAH72Mb (xxx=550-615, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mb (xxx=460-510, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mb (xxx=415-460, in steps of 5, 108 cells)• AIKO-Bxxx-MAH72Mb (xxx=540-580, in steps of 5, 144 cells)• AIKO-Bxxx-MAH60Mb (xxx=450-480, in steps of 5, 120 cells)• AIKO-Bxxx-MAH54Mb (xxx=405-435, in steps of 5, 108 cells) <p>xxx represents output power in Wp</p> |
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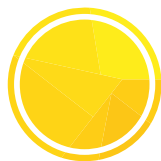


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RISK MANAGEMENT

PID	
Certification body	TÜV Rheinland
Certificate No	PV50572633
Date of issue	2023-02-08
Vaild until	2027-06-23
Testing according to	<ul style="list-style-type: none">• 2 PfG 2387/01.18
Certified PV module models	<p>Max. System Voltage: up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells:</p> <ul style="list-style-type: none">• AIKO-Pxxx-MAH72Mw (xxx=525-560, in steps of 5, 144 cells)• AIKO-Pxxx-MAH60Mw (xxx=440-465, in steps of 5, 120 cells)• AIKO-Pxxx-MAH54Mw (xxx=395-420, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mw (xxx=550-615, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mw (xxx=460-510, in steps of 5, 120 cells)• AIKO-Axxx-MAH54Mw (xxx=415-460, in steps of 5, 108 cells)• AIKO-Pxxx-MAH72Mb (xxx=525-560, in steps of 5, 144 cells)• AIKO-Pxxx-MAH60Mb (xxx=440-465, in steps of 5, 120 cells)• AIKO-Pxxx-MAH54Mb (xxx=395-420, in steps of 5, 108 cells)• AIKO-Axxx-MAH72Mb (xxx=550-615, in steps of 5, 144 cells)• AIKO-Axxx-MAH60Mb (xxx=460-510, in steps of 5, 120 cells)

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	<ul style="list-style-type: none">• AIKO-Axxx-MAH54Mb (xxx=415-460, in steps of 5, 108 cells) xxx represents output power in Wp
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