

# AIONRISE

Generate | Store | Utilise

## PHOTOVOLTAIC MODULE

SILVER FRAME PERC

AION72G1 410 Wp

### MADE IN GEORGIA

AIONRISE PV modules are manufactured only in-house at the own fully automated facilities with an integrated uncompromising multi-step quality check using the latest available technology

### REDUCING LCOE

Compounded by the European bill of materials AIONRISE products deliver long-term higher output comparing to other analogs and provide lower LCOE

### COMMITMENTS

We provide linear 30 years performance guarantee and 12 years product warranty.

### CERTIFIED QUALITY

AIONRISE is certified by all key quality programs of TUV Rhineland, which considerably expand tests of IEC 61215 / 61730 / 62716 / 61701 and UL 61730 with Regular Production Surveillance performed every six months. Extensive participation in the testing programs of the global independent certification authority ensures the high reliability, safety, and quality of our modules.



CELLS



MICRO-CRACK  
FREE



PID RESISTANT



SALT CORROSION  
RESISTANT



SAND RESISTANT



HIGHLY STABLE  
AND TOUGH



AMMONIA RESISTANT

30

YEARS

PERFORMANCE  
GUARANTEE

12

YEARS

PRODUCT  
WARRANTY

### GUARANTEED MODULE PERFORMANCE



MADE IN GEORGIA

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## MATERIAL CHARACTERISTICS

Dimensions	1979 x 1002 x 40 mm
Weight	23.3 kg
Number of cells	72 pcs (6 x 12)
Cells type	Mono-crystalline
Cells size	158.75 x 158.75 mm, G1
Glass	3.2 mm double layer, AR coated, Iron free
Backsheet	White, 310 µm
Junction box	IP 67 rated, 3 bypass diodes
Output cable	4.0 mm <sup>2</sup> , 1200 mm
Connector	Staubli MC4 / MC4-Evo 2

## PACKAGING INFORMATION

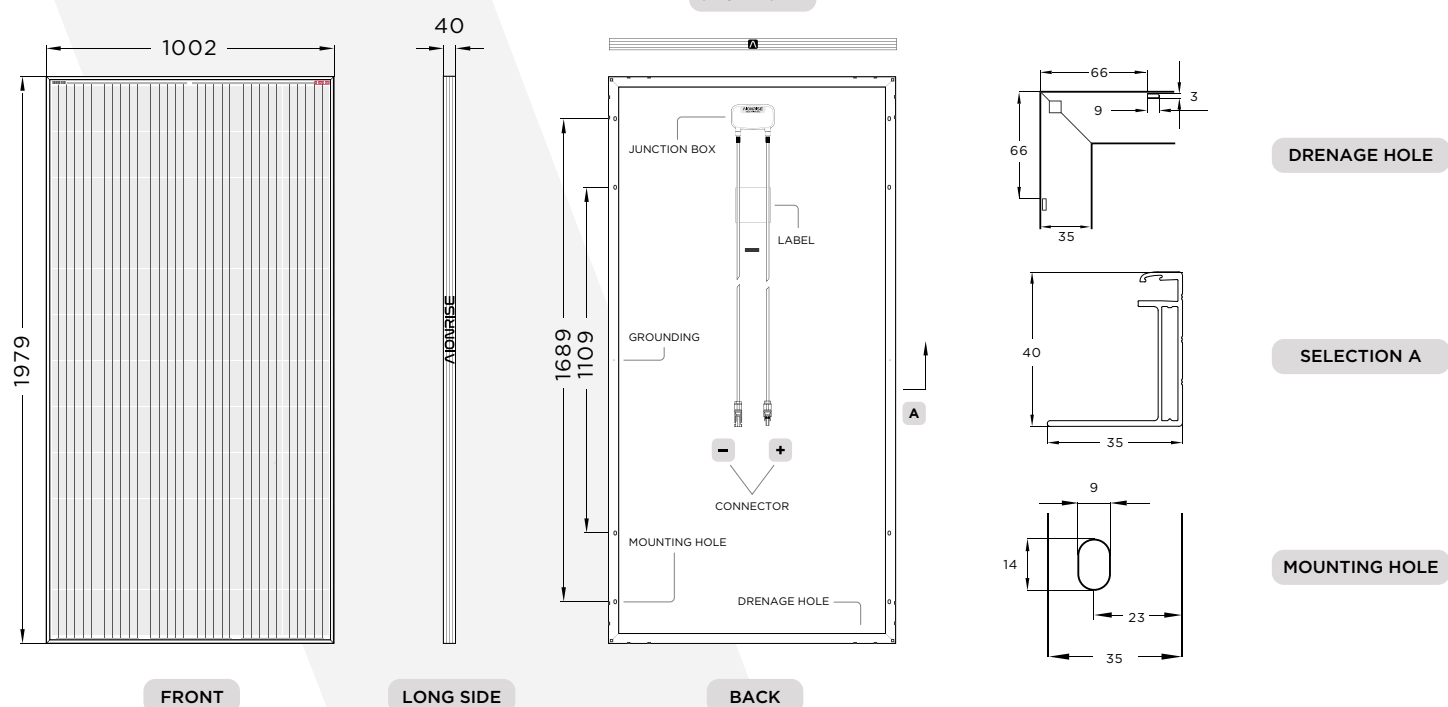
One pallet quantity	26 pcs
Pallet size	2018 x 1095 x 1125 mm
Pallet weight	635 kg
Double pallet quantity	52 pcs + 4 pcs
Double pallet size	2018 x 1095 x 2450 mm
Double pallet weight	1365 kg

## LOADING INFORMATION

20 ft HC / HQ Container	280 pcs maximum
40 ft HC / HQ Container	616 pcs maximum
Truck	780 pcs maximum

## DIMENSIONS

(in mm)



## ELECTRICAL CHARACTERISTICS

## AION72G1-410

Nominal maximum power	P <sub>max</sub> (Wp)	P <sub>max</sub> (Wp)	410
Maximum power voltage	V <sub>mp</sub> (V)	V <sub>mp</sub> (V)	39.62
Maximum power current	I <sub>mp</sub> (A)	I <sub>mp</sub> (A)	10.35
Open-circuit voltage	V <sub>oc</sub> (V)	V <sub>oc</sub> (V)	48.53
Short-circuit current	I <sub>sc</sub> (A)	I <sub>sc</sub> (A)	10.90
Module efficiency	(%)	(%)	20.66

Power tolerance	P <sub>max</sub> (Wp)	0 / +5
Maximum system voltage DC	(V)	1000 / 1500
Maximum system fuse rating	(A)	20
Operating temperature	(°C)	-40 to +85
Temperature coefficients of P <sub>max</sub>	(% / °C)	-0.36
Temperature coefficients of V <sub>oc</sub>	(% / °C)	-0.29
Temperature coefficients of I <sub>sc</sub>	(% / °C)	0.048
Normal operating cell temperature (NOCT)	(°C)	45 ± 2

The electrical data apply to standard test conditions (STC):  
Irradiance of 1000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25°C

## MAXIMUM LOAD\*

Installation type: 4 point bolting on the long side

Uplift load	2400 Pa / 244 kg/m <sup>2</sup>
Downforce load	5400 Pa / 550 kg/m <sup>2</sup>

Installation type: 4 point clamping on the long side

Uplift load	3600 Pa / 367 kg/m <sup>2</sup>
Downforce load	5400 Pa / 550 kg/m <sup>2</sup>

\*For more information please refer to Instruction Manual

## CERTIFICATES



UL 61730-2:2017  
UL 61730-1:2017



Ammonia  
Resistance  
Regular Production  
Surveillance

www.tuv.com  
ID 1111249124



IEC 61215  
IEC 61730  
Regular Production  
Surveillance

www.tuv.com  
ID 1111245966



Salt Mist  
Resistance  
Regular Production  
Surveillance

www.tuv.com  
ID 1111249125



## CONTACT INFORMATION

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