



SOLARHERO

heropv.com

# HERO®PV 430S2-PRO2



## High Efficiency

Module efficiency leading in industry, up to 22.0%



## N-type TOPCon cells

N-type solar cells are more efficient than P-type cells. This means that more solar energy is converted into electrical energy.



## Original MC4 connector

HERO®PV modules are equipped with original MC4 connectors from Stäubli.



## Double Sided Power Generation

Bifacility is up to 80%, up to 30% more energy yield than conventional modules.



## Better Temperature Coefficient

Higher power output even under low-light environments like on cloudy or foggy days.



## Extensive Application Scenes

More extensive application scenes, such as BIPV, snow field, vertical installation, high humidity, strong wind and desert region.



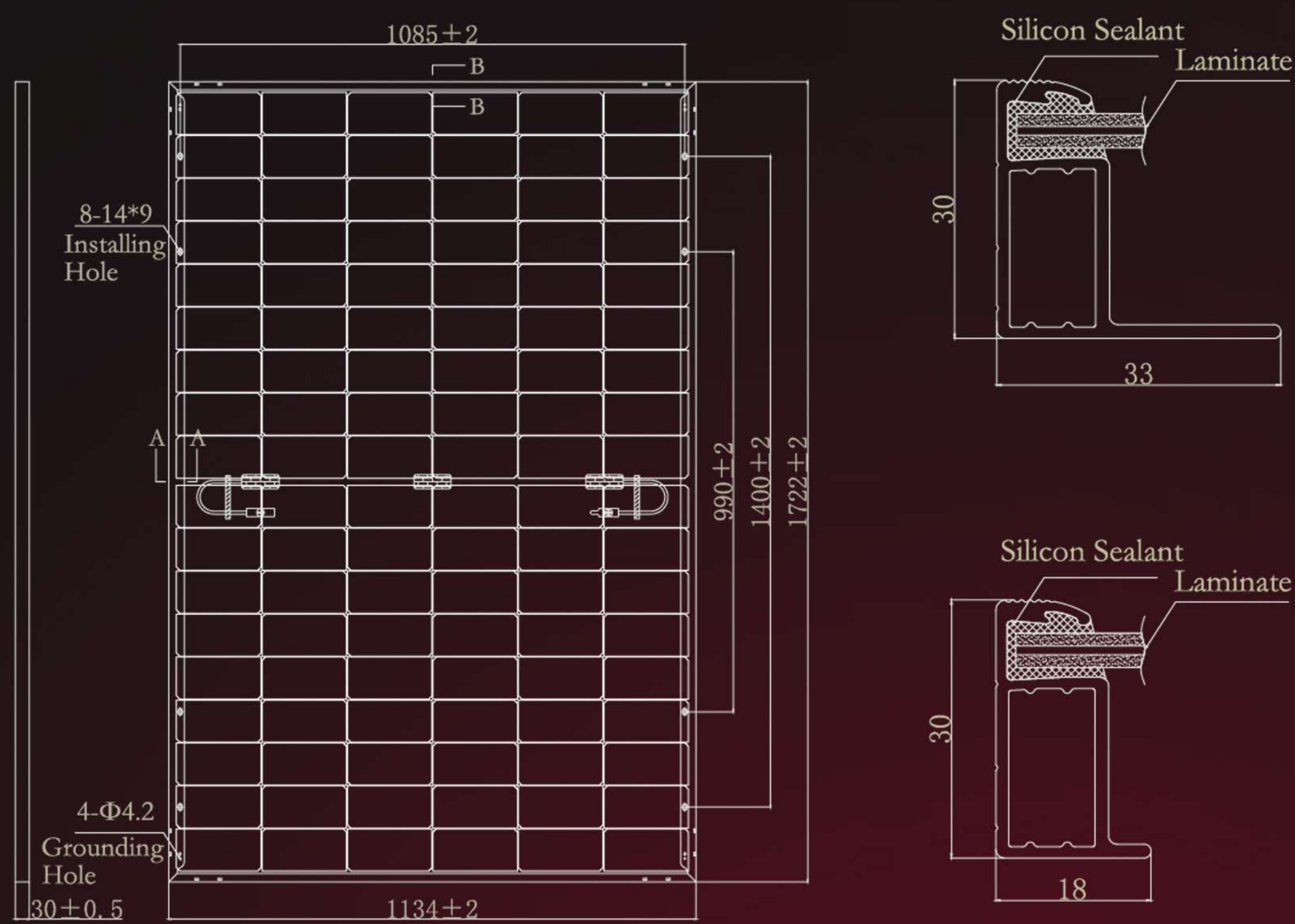
Materials and workmanship warranty



Linear power warranty



## Engineering Drawings

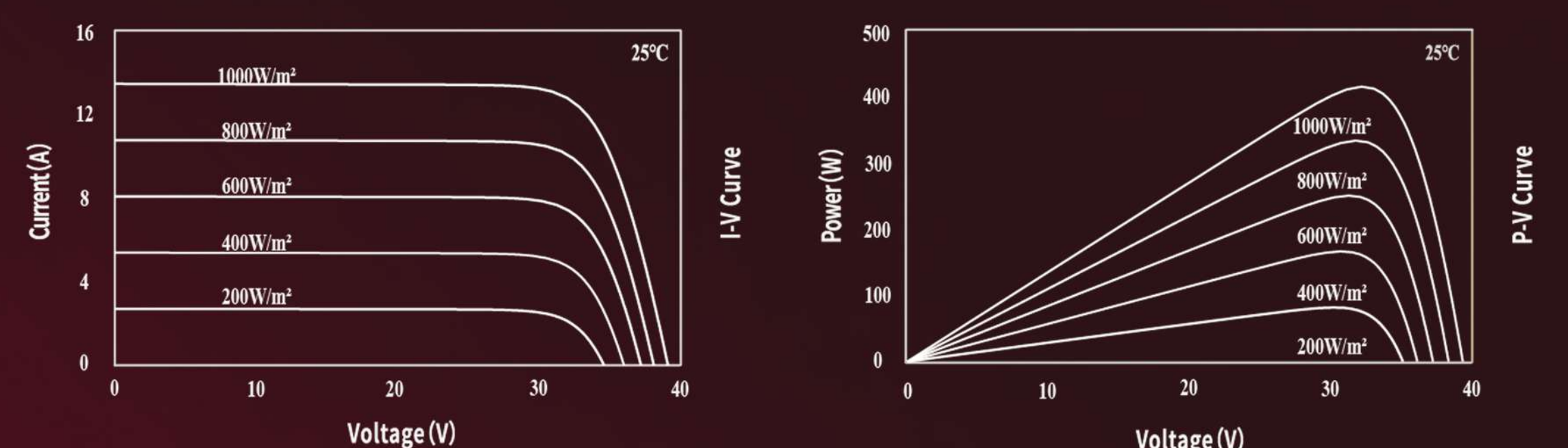


## Safety & Warranty

Fire Safety Class	Class C according to UL790
Product Warranty	30 year Workmanship warranty
Product Warranty	30 year Linear* power warranty

Container Size	40'
Pallets Per Container	26
Modules Per Pallet (pcs)	36

## Characteristic Curves



## Electrical Characteristic

Testing condition	Front Side
Nominal Max. Power(Pmax/Wp)	430
Open Circuit Voltage(Voc/V)	38.49
Short Circuit Current(Isc/A)	14.23
Operating Voltage(Vmp/V)	31.88
Operating Current(Imp/A)	13.49
Efficiency(%)	22.0

STC \* : Irradiance = 1000 W/m<sup>2</sup>, Cell Temperature = 25°C, AM = 1.5

## Mechanical Characteristics

Cell Size	N Type 182mm*91mm(TOPCon Cells)
Module Size	1722X1134X30mm
Glass Thickness	2.0mm
Module Weight	24.5Kg
Output Cable	4mm <sup>2</sup> , cable length 1200mm (can be customized)
Connector	Stäubli MC4-Connectors
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy

## Back Power Gain

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power(Pmax/Wp)	473.0	474.5	516.0	537.5	554.0
Open Circuit Voltage(Voc/V)	38.60	38.70	38.80	38.80	38.90
Short Circuit Current(Isc/A)	15.70	16.44	17.18	17.93	18.50
Operating Voltage(Vmp/V)	31.70	31.60	31.60	31.60	31.50
Operating Current(Imp/A)	14.94	15.64	16.33	17.04	17.58

## Temperature Characteristic

Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.250%/°C
Nominal Max. Power(Pmax)	-0.300%/°C
NMOT	42±2°C

## Operating Parameters

Max. System Voltage	DC1500V	Max. Fuse Rated Current	30A
Power Tolerance	3%	Front Static Load	Snow load 5400Pa, Wind Load 2400Pa
Operating Temperature	-40°C ~ +85°C	Packing Specification	36pcs/Pallet; 216(20GP); 936(40HQ)

Measurement tolerance of the rated power 3% depending on equipment. The specifications and average values can vary slightly. A possible light-induced degradation after commissioning is not taken into account.





Product Service

# CERTIFICATE

No. 22 118630 0001 Rev. 02

**Holder of Certificate:** **SOLAR HERO GmbH**

Rheinpromenade 11  
40789 Monheim am Rhein  
GERMANY

**Certification Mark:**



**Product:**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**  
**Mono-crystalline Silicon Photovoltaic Module**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 701262219901-02

**Valid until:** 2028-09-04

**Date,** 2023-09-21

( Zhulin Zhang )





# CERTIFICATE

No. 22 118630 0001 Rev. 02

## Model(s):

SOLARHERO xxx-51 (xxx= 385-425, in steps of 5)  
 SOLARHERO xxx-51 PRO1 (xxx= 385-425, in steps of 5)  
 SOLARHERO xxx-51 PRO2 (xxx= 385-425, in steps of 5)  
 SOLARHERO xxx-51-B (xxx= 410-465, in steps of 5)  
 SOLARHERO xxx-51-B PRO1 (xxx= 410-465, in steps of 5)  
 SOLARHERO xxx-51-B PRO2 (xxx= 410-465, in steps of 5)  
 SOLARHERO xxx-52 (xxx= 400-440, in steps of 5)  
 SOLARHERO xxx-52 PRO1 (xxx= 400-440, in steps of 5)  
 SOLARHERO xxx-52 PRO2 (xxx= 400-440, in steps of 5)  
 SOLARHERO xxx-52 PRO3 (xxx= 400-440, in steps of 5)  
 SOLARHERO xxx-52-B (xxx= 530-590, in steps of 5)  
 SOLARHERO xxx-52-B PRO1 (xxx= 530-590, in steps of 5)  
 SOLARHERO xxx-52-B PRO2 (xxx= 530-590, in steps of 5)  
 xxx is standing for rated output power at STC.

## Parameters:

Safety Class:	Class 11
Max. System Voltage:	1500V DC
Test Laboratory:	Yangzhou Opto-Electrical Product Testing Institute No.10 West Kaifa Road, Yangzhou, 225009 Jiangsu P.R.China
Construction:	Framed or Frameless, with Junction box, cable and connector.
Fire Safety Class:	Class C according to UL790

## Tested according to:

IEC 61215-1 :2016  
 IEC 61215-1-1 :2016  
 IEC 61215-2:2016  
 IEC 61730-1:2016  
 IEC 61730-2:2016