

# SunPlus Premium Performance 210 PERC Module (60 pcs)



## 585W-605W

### ◆ Product Features



#### Product Features

Energy density is increased by utilizing multi-busbar (MBB) and half-cut-cell technology, boosting the overall module efficiency upto 21.4%.



#### High Reliability

Passed the test under conditions three times higher than IEC standard, 12-year material warranty, 25-year power warranty.



#### PID-Resistant

The degradation caused by PID effect is minimized through state-of-the-art manufacture technology and strict material management.



#### Minimized Hidden Cracks

The adoption of MBB technology provides greater resistance to hidden cracks and improves busbar durability.



#### Superior Load Capacity

Certified for 2400 Pa wind load and 5400 Pa snow load.



#### Outstanding Low radiance Performance

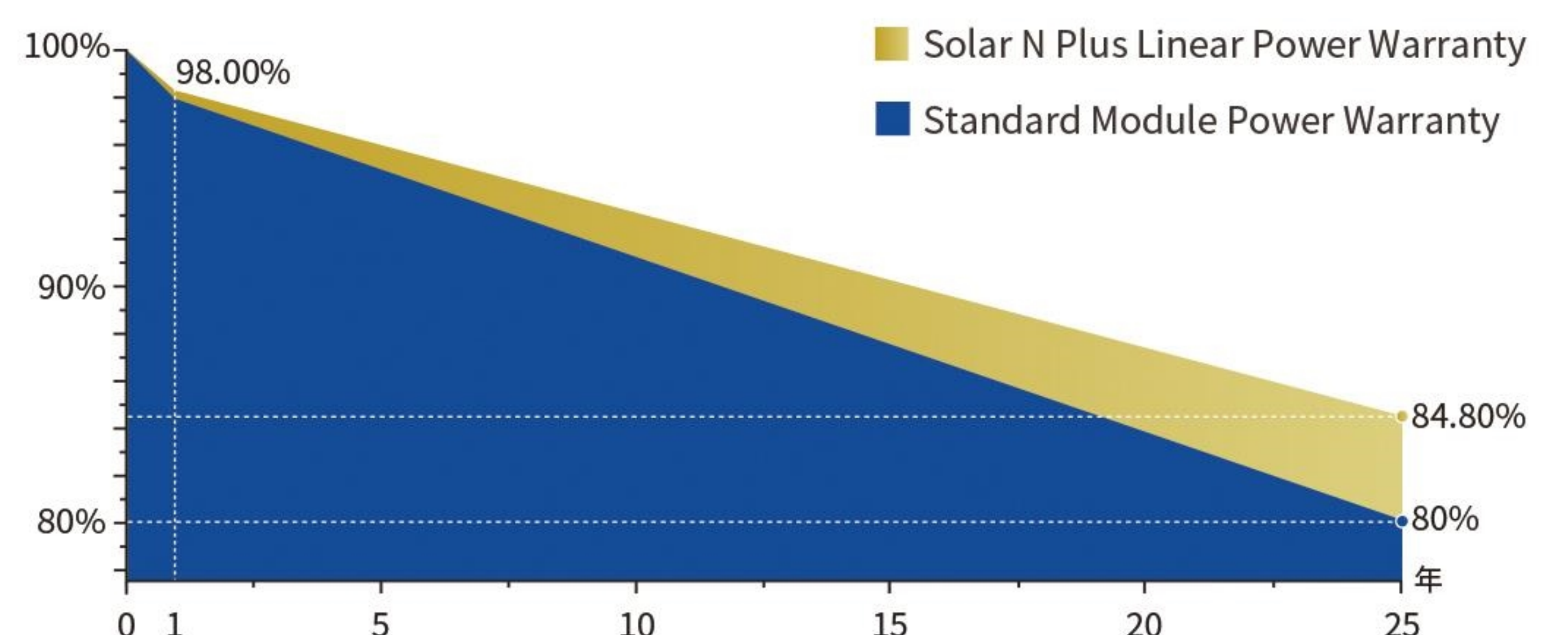
Exceptional efficiency and output power under weak light conditions such as haze and cloudy weather.

### ◆ Comprehensive Quality Management System and Product Certificates

- Passed various long-term reliability tests.
- EL tests are performed before and after lamination to ensure the reliability of the module.
- Adopted strict international standard management systems, including ISO 9001, ISO 14001, and OHSAS:18001.
- Passed various rigorous environmental tests, including salt spray, ammonia, and dust-proof tests according to IEC 61701, IEC 62716 and DIN EN 60068-2-68.



### ◆ Linear Performance Warranty



# SP-G12/120H585W-605W

## Electrical Specification (STC)

Maximum Power	W	585	590	595	600	605
Power Output Tolerance	W	0 ~ +5W				
Maximum Power Voltage	V	33.8	34.0	34.2	34.4	34.6
Maximum Power Current	A	17.31	17.35	17.40	17.44	17.49
Open Circuit Voltage	V	40.9	41.1	41.3	41.5	41.7
Short Circuit Current	A	18.37	18.42	18.47	18.52	18.57
Module Efficiency	%	20.7	20.9	21.0	21.2	21.4

Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, Air Mass 1.5

## Electrical Specification (NOCT)

Maximum Power	W	443	447	451	454	458
Maximum Power Voltage	V	31.5	31.7	31.9	32.0	32.2
Maximum Power Current	A	14.05	14.09	14.13	14.18	14.22
Open Circuit Voltage	V	38.5	38.7	38.9	39.1	39.3
Short Circuit Current	A	14.81	14.85	14.88	14.92	14.96

Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## Mechanical Data

Dimensions of Module L*W*H	2172mmx1303mmx35mm
Number of Cells	120 pcs(6x20)/Mono/12BB(210mm)
Weight	30.9kg
Glass	High transparency solar glass 3.2mm
Frame	Silver, anodized aluminium alloy
J-Box	IP68
Cable	4.0mm <sup>2</sup> (0.006inches <sup>2</sup> ), 300mm(11.8inches)
Connector	MC Compatible

## Operating Conditions

Maximum System Voltage	DC1500V(TUV)
Max Series Fuse Rating	25A
Operational Temperature	-40°C~+85°C
Mechanical load	5400Pa/2400Pa
Max. hailstone impact(diameter/velocity)	Φ25mm hail, from 1 m of distance at 23 m/s
Application Class	Class A

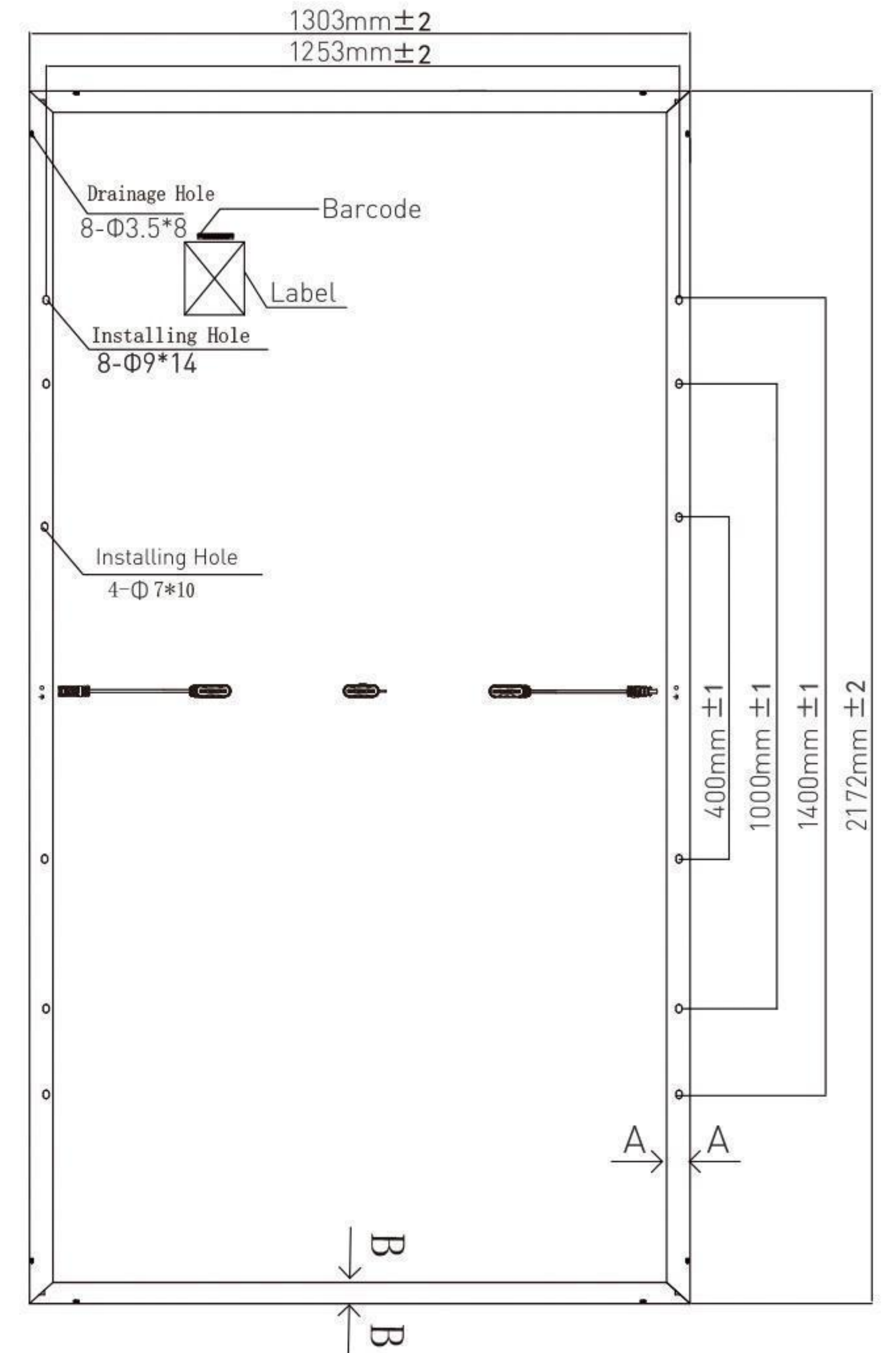
## Temperature Ratings

Nominal Operating Cell Temperature	43±2°C
Temperature Coefficient of I <sub>sc</sub>	-0.340%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.250%/°C
Temperature Coefficient of P <sub>MAX</sub>	+0.040%/°C

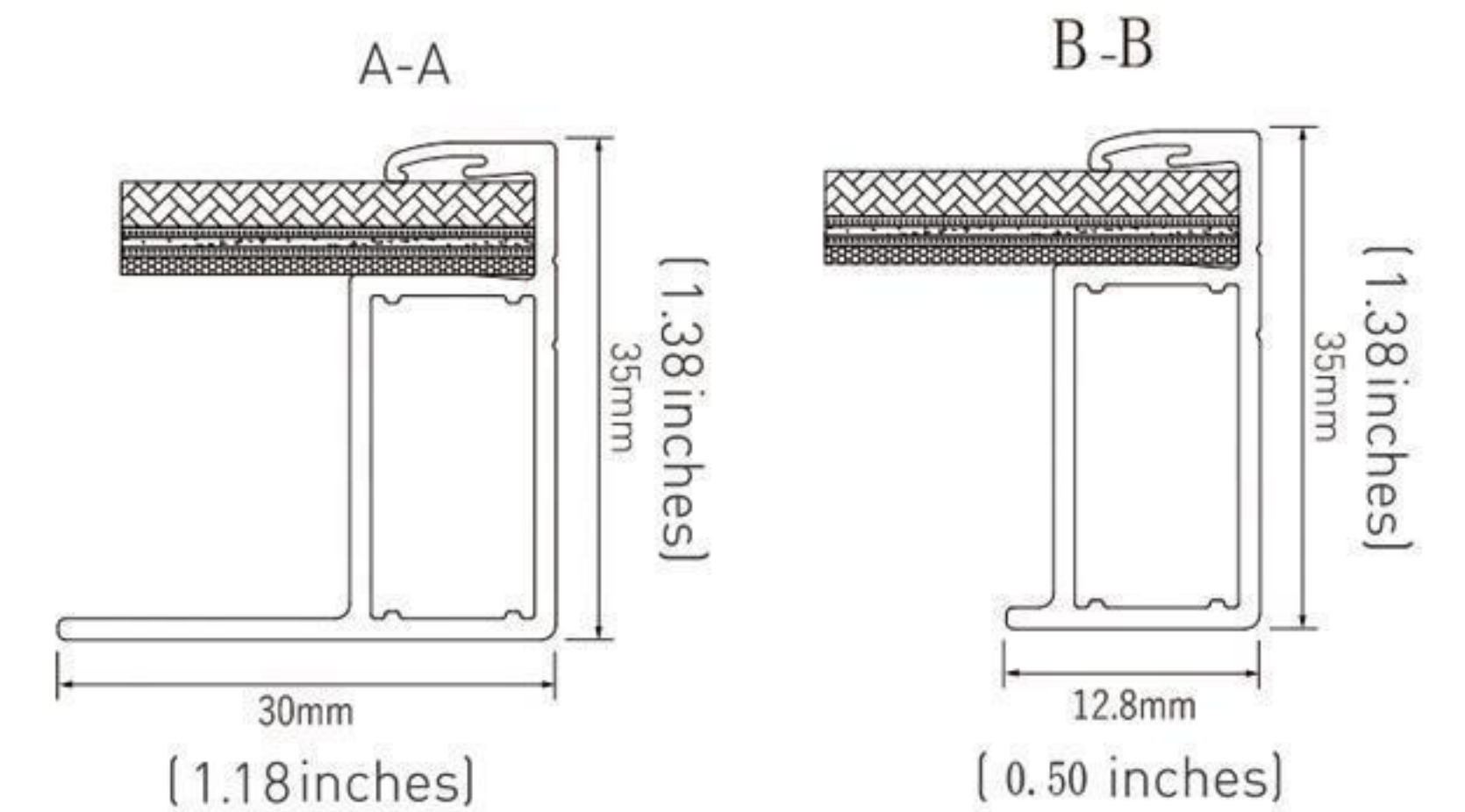
## Package

Module per box	31 pieces
Module per 40' container	558 pieces

## Module Dimension

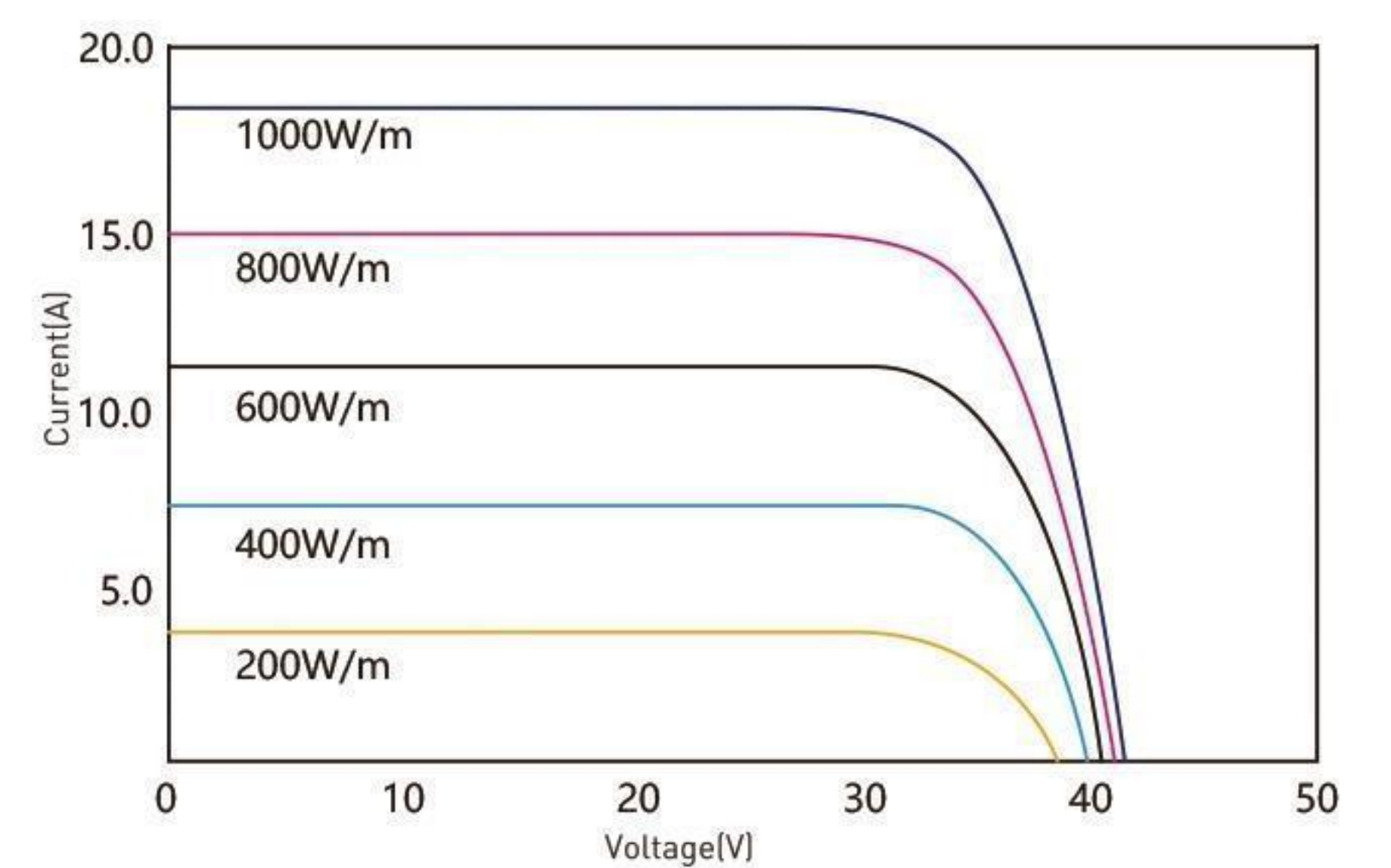


Back View

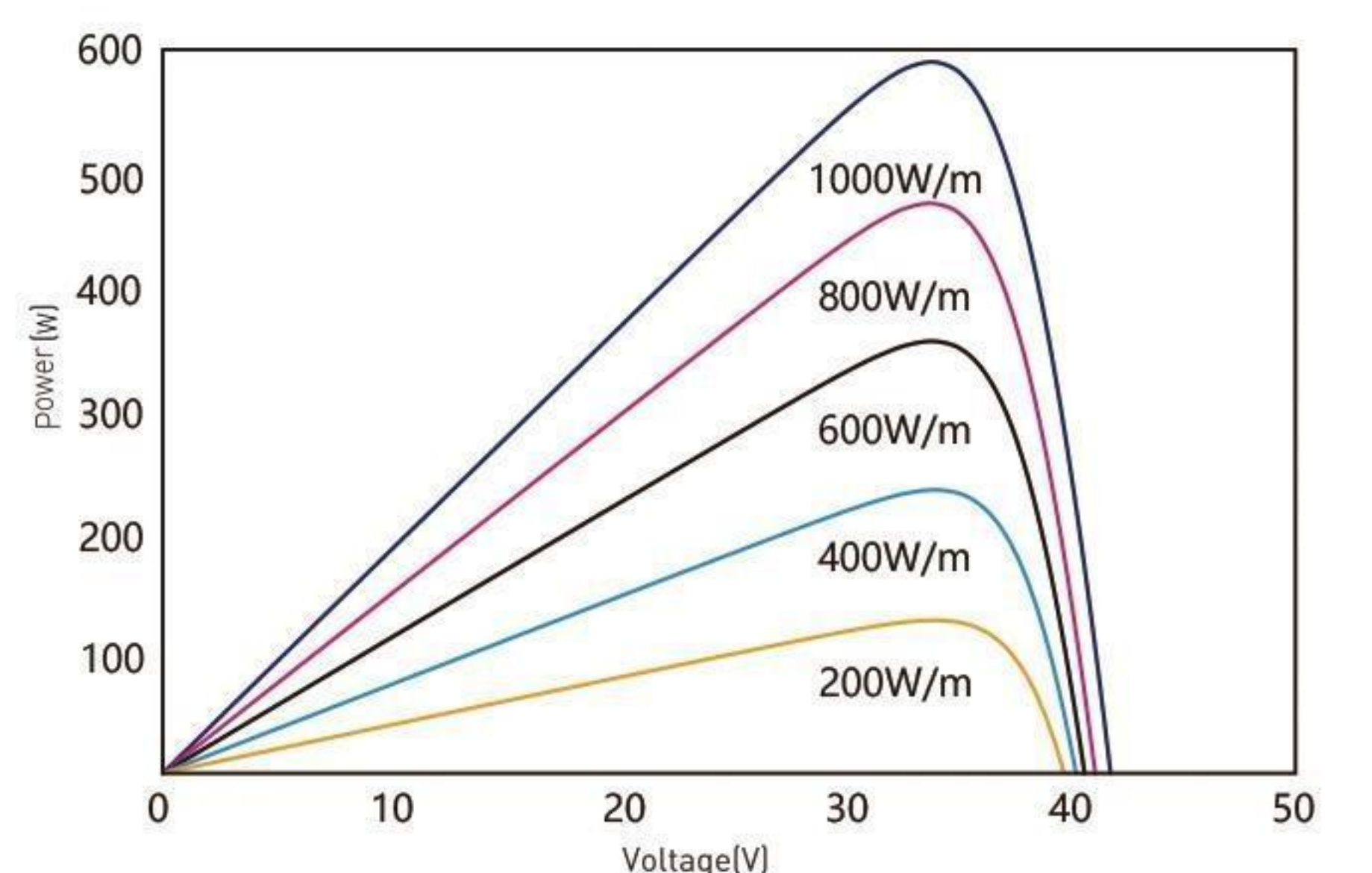


## I-V Curve

I-V Curves of 595W at different irradiance



I-V Curves of 595W at different cell temperature



Solar N Plus New Energy Technology Co., Ltd.

☛ No. 1, Jianye Road, SCP Suchu High-tech Industrial Development Zone, Chuzhou City, Anhui Province.

☎ 86-025-52806120

🌐 www.solamplus.com

Solar N Plus reserves the sole right of interpretation.

Version No. 20230411