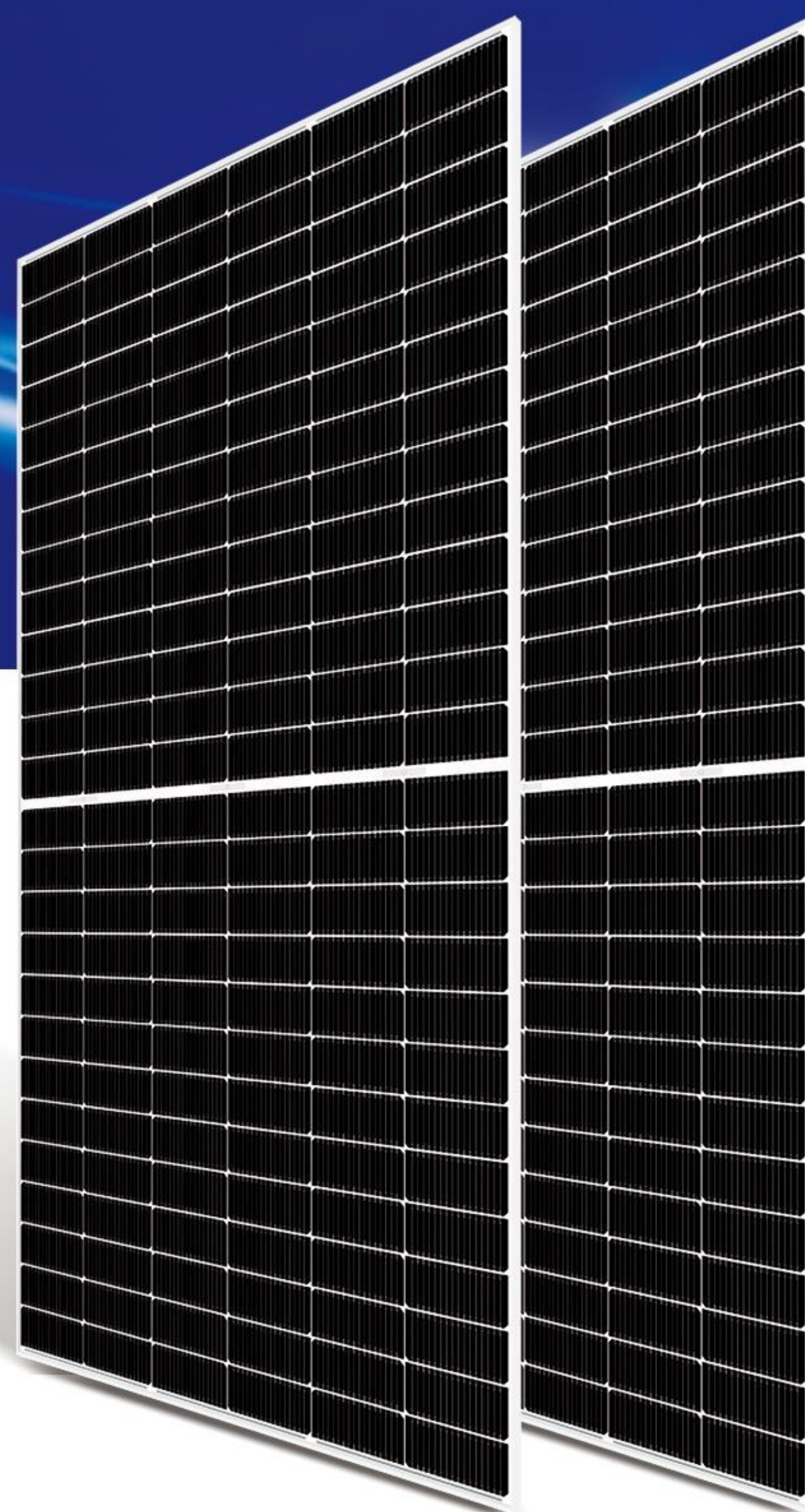


# SunPlus Premium Performance 182 TOPCon Module (78 pcs)



## 610W-630W

### ◆ Product Features



#### Product Features

Energy density is increased by utilizing multi-busbar (MBB) and half-cut-cell technology, boosting the overall module efficiency upto 22.54%.



#### 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

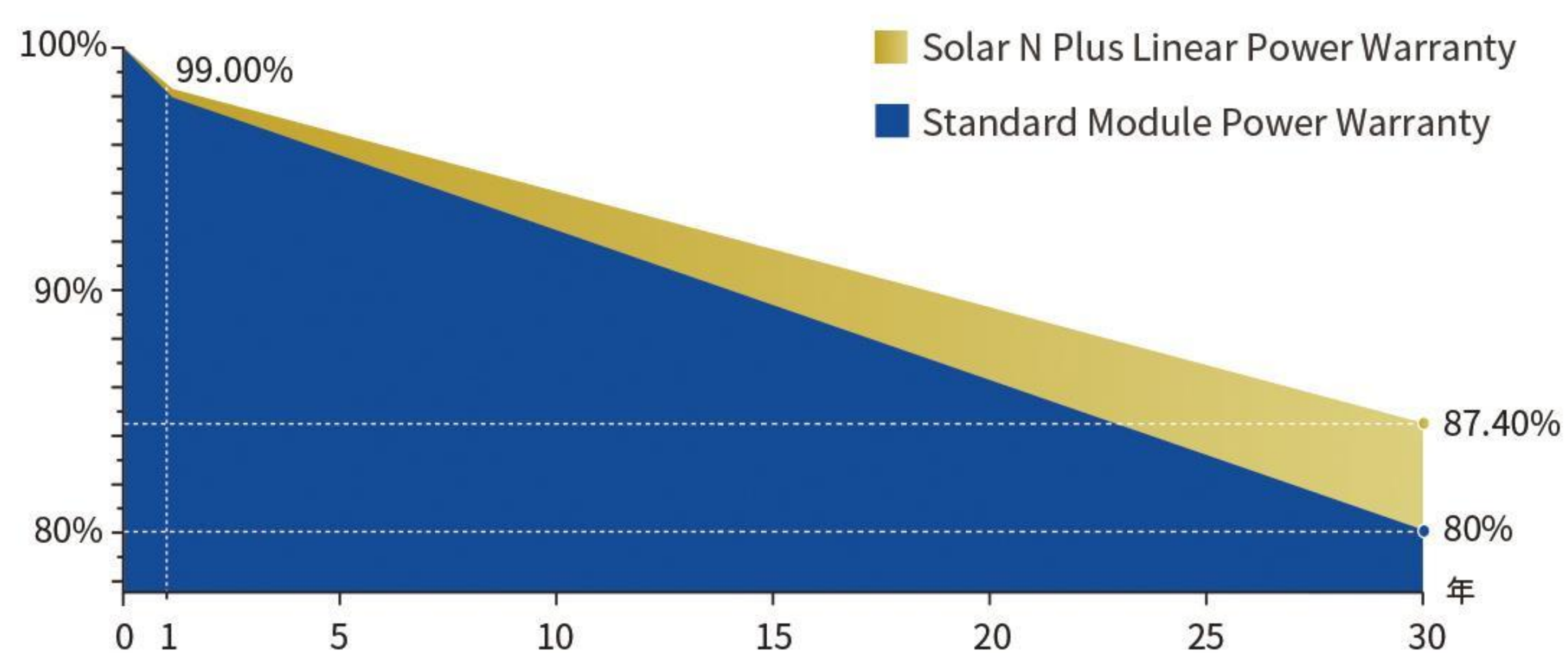
Exceptional efficiency and output power under weak light conditions such as haze and cloudy weather.

### ◆ 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-N16/156H610W-630W

## Electrical Specification (STC)

Maximum Power	W	610	615	620	625	630
Power Output Tolerance	W	0 ~ +5W				
Maximum Power Voltage	V	45.59	45.69	45.79	45.92	46.02
Maximum Power Current	A	13.38	13.46	13.54	13.61	13.69
Open Circuit Voltage	V	55.25	55.40	55.55	55.70	55.85
Short Circuit Current	A	14.11	14.18	14.25	14.32	14.39
Module Efficiency	%	21.82	22.00	22.18	22.36	22.54

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

## Electrical Specification (NOCT)

Maximum Power	W	459	462	466	470	474
Maximum Power Voltage	V	42.28	42.39	42.50	42.61	42.72
Maximum Power Current	A	10.85	10.91	10.97	11.03	11.09
Open Circuit Voltage	V	52.48	52.62	52.77	52.91	53.05
Short Circuit Current	A	11.39	11.45	11.50	11.56	11.62

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

## Mechanical Data

Dimensions of Module L*W*H	2465 × 1134 × 35mm
Number of Cells	156 pcs(2x78)/Mono/16BB(182mm)
Weight	30.6kg
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	1000/1500VDC (IEC)
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

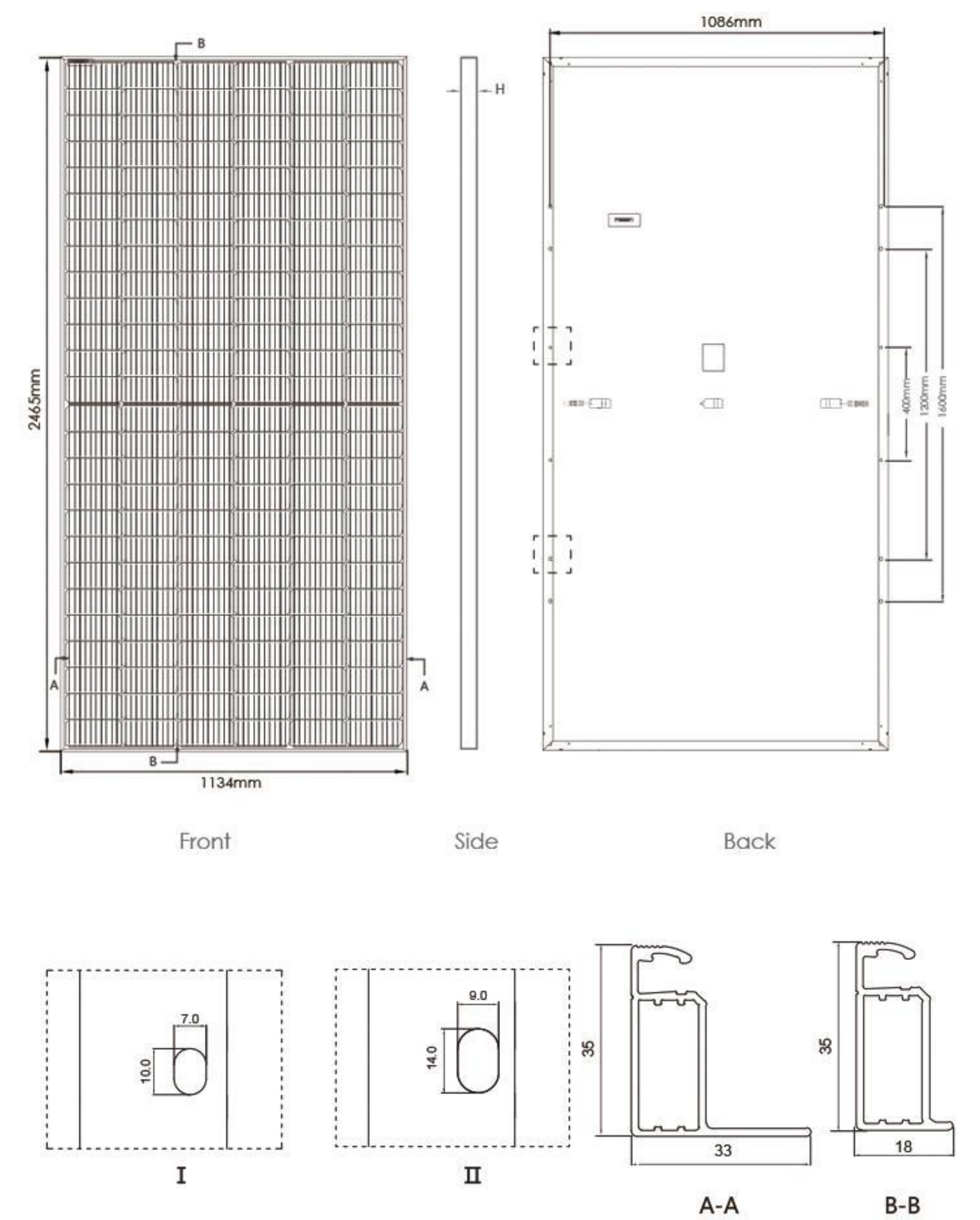
## Temperature Ratings

Nominal Operating Cell Temperature	45 ± 2°C
Temperature Coefficient of I <sub>sc</sub>	-0.290%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.250%/°C
Temperature Coefficient of P <sub>MAX</sub>	+0.045%/°C

## Package

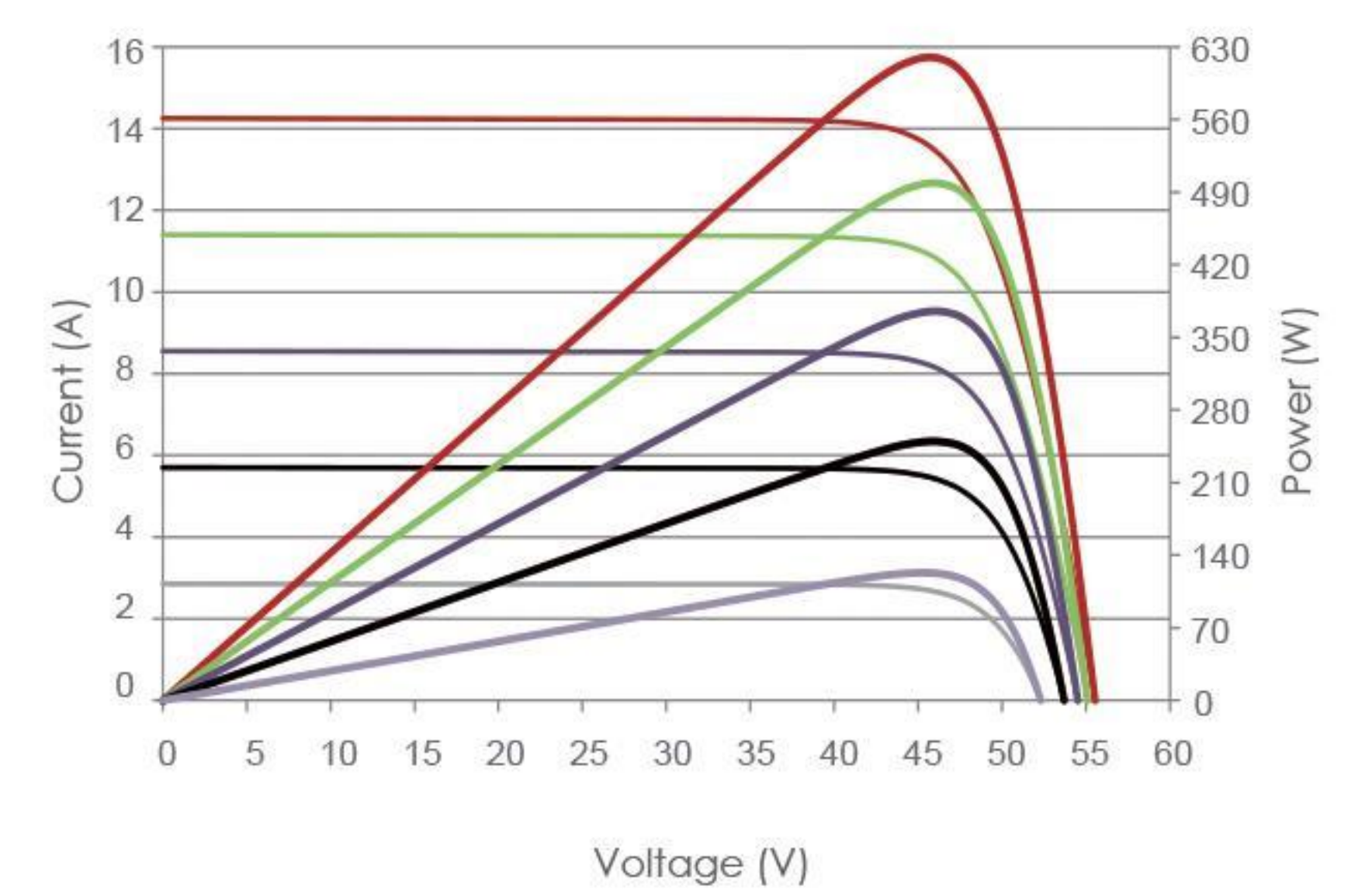
Module per box	31 pieces
Module per 40' container	496 pieces

## Module Dimension

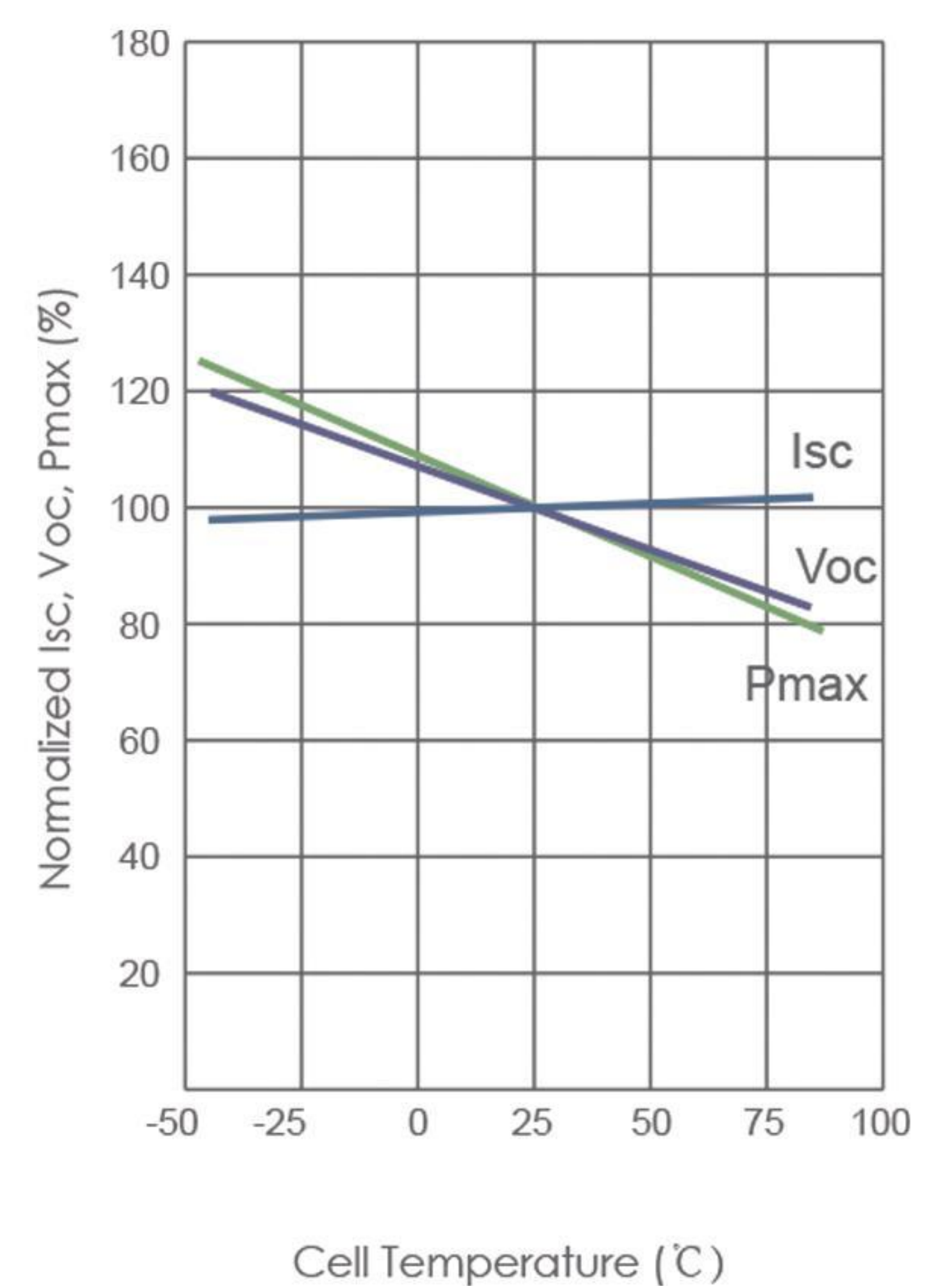


## I-V Curve

Current-Voltage & Power-Voltage Curves(575W)



Temperature Dependence of I<sub>sc</sub>, V<sub>oc</sub>, P<sub>max</sub>



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 Version No. 20230510