

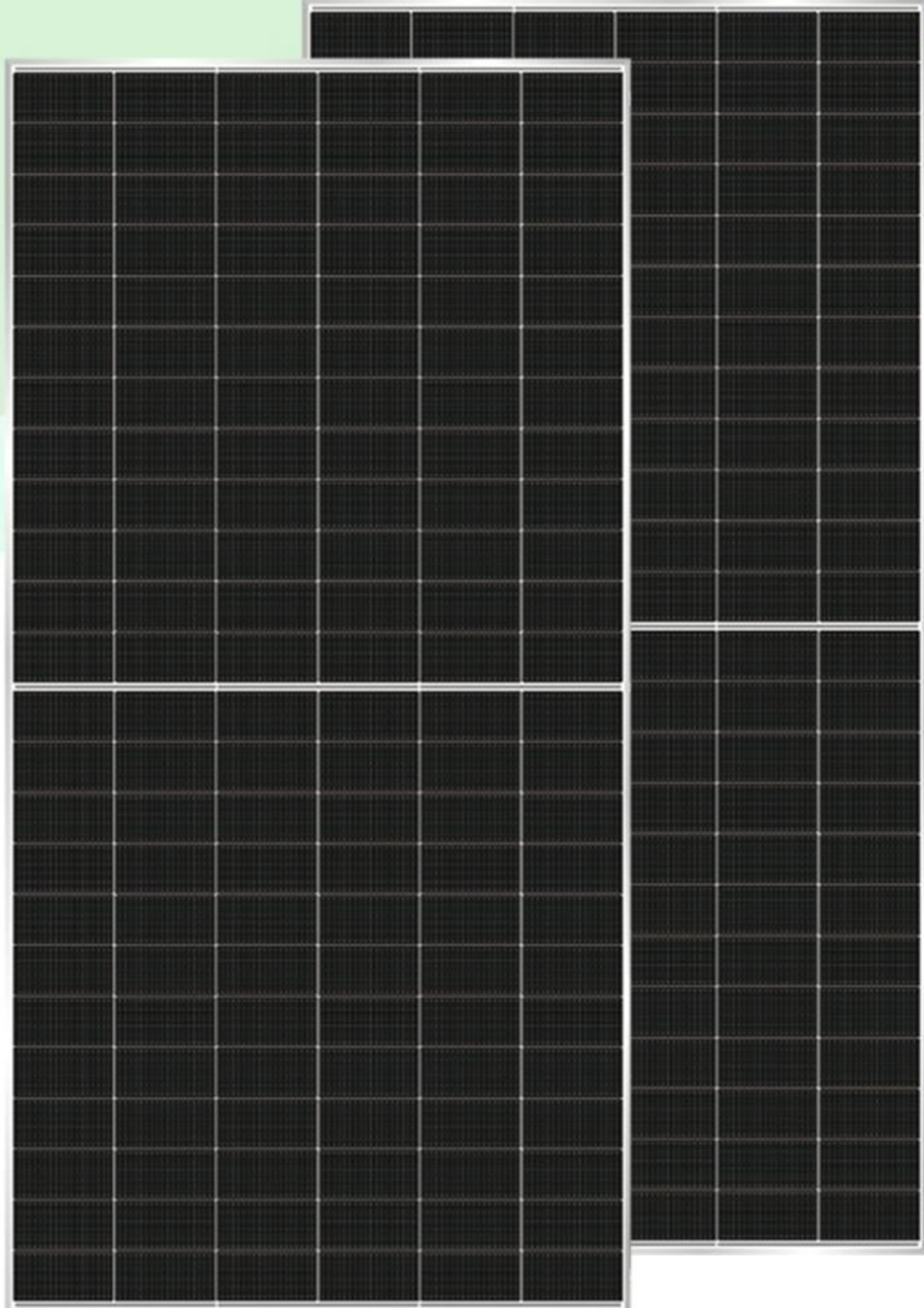


TOPCON TECHNOLOGY

FY 182-144N

MONO-FACIAL MODULE

570W-590W



590W

Maximum Power Output

22.84%

Maximum Module Efficiency

0~+3W

Power Output Tolerance



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



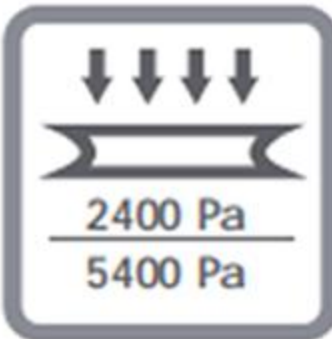
Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Enhanced Mechanical Load

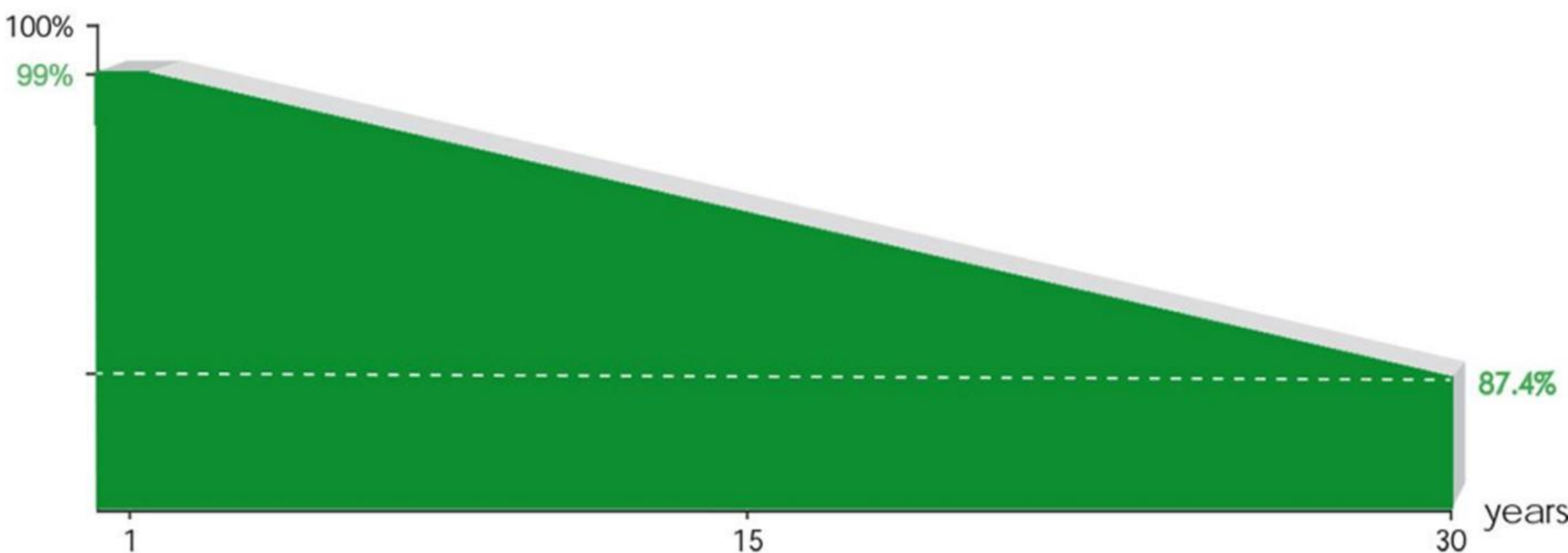
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

LINEAR PERFORMANCE WARRANTY



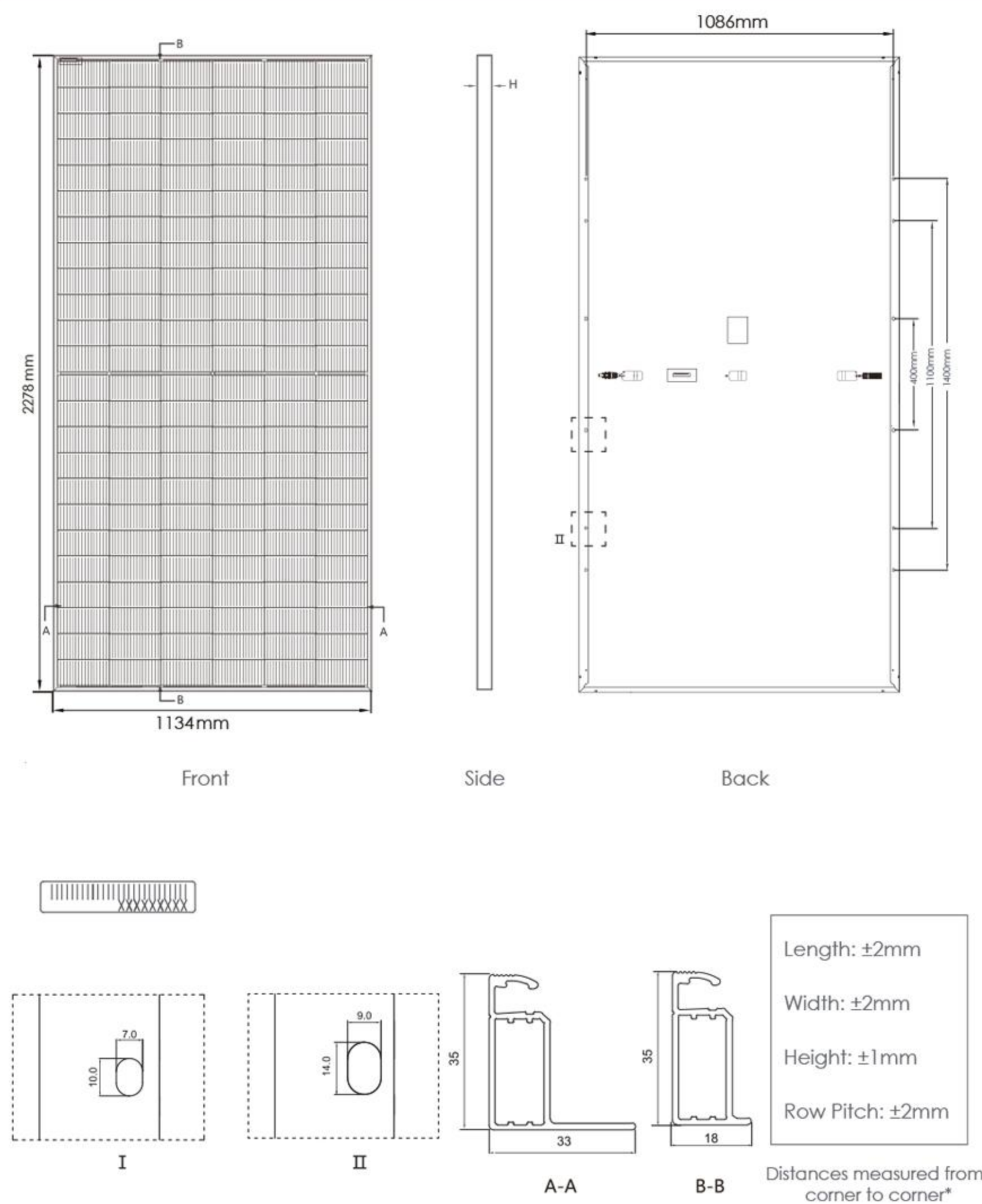
12 Years Product Material & Workmanship

30 Years Linear Performance Warranty

SPECIFICATIONS

Module Type	FY-144-570N		FY-144-575N		FY-144-580N		FY-144-585N		FY-144-590N	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Maximum Power (Pmax)	570W	430W	575W	433W	580W	437W	585W	441W	590W	445W
Open Circuit Voltage (Voc)	51.99V	39.51V	52.15V	39.63V	52.31V	39.76V	52.47V	39.88V	52.63V	40.00V
Short Circuit Current (Isc)	13.89A	11.21A	13.95A	11.26A	14.01A	11.31A	14.07A	11.36A	14.13A	11.41A
Voltage at Maximum power (Vmpp)	42.99V	40.37 V	43.17V	40.54V	43.35V	40.70V	43.53V	40.86V	43.71V	41.05 V
Current Maximum Power (Impp)	13.26A	10.64A	13.32A	10.69A	3.38A	10.74A	13.44A	10.79A	13.50A	10.83 A
MODULE EFFICIENCY (%)	22.07%		22.26%		22.45%		22.65%		22.84%	
Maximum system voltage					1500 DC (IEC)					
Maximum series fuse rating					25A					
Power tolerance					0/+3W					
Temperature coefficients of Pmax					-0.29%/°C					
Temperature coefficients of Voc					-0.25%/°C					
Temperature coefficients of Isc					+0.045%/°C					
Nominal Operating Temperature (NMOT)					45±2°C					

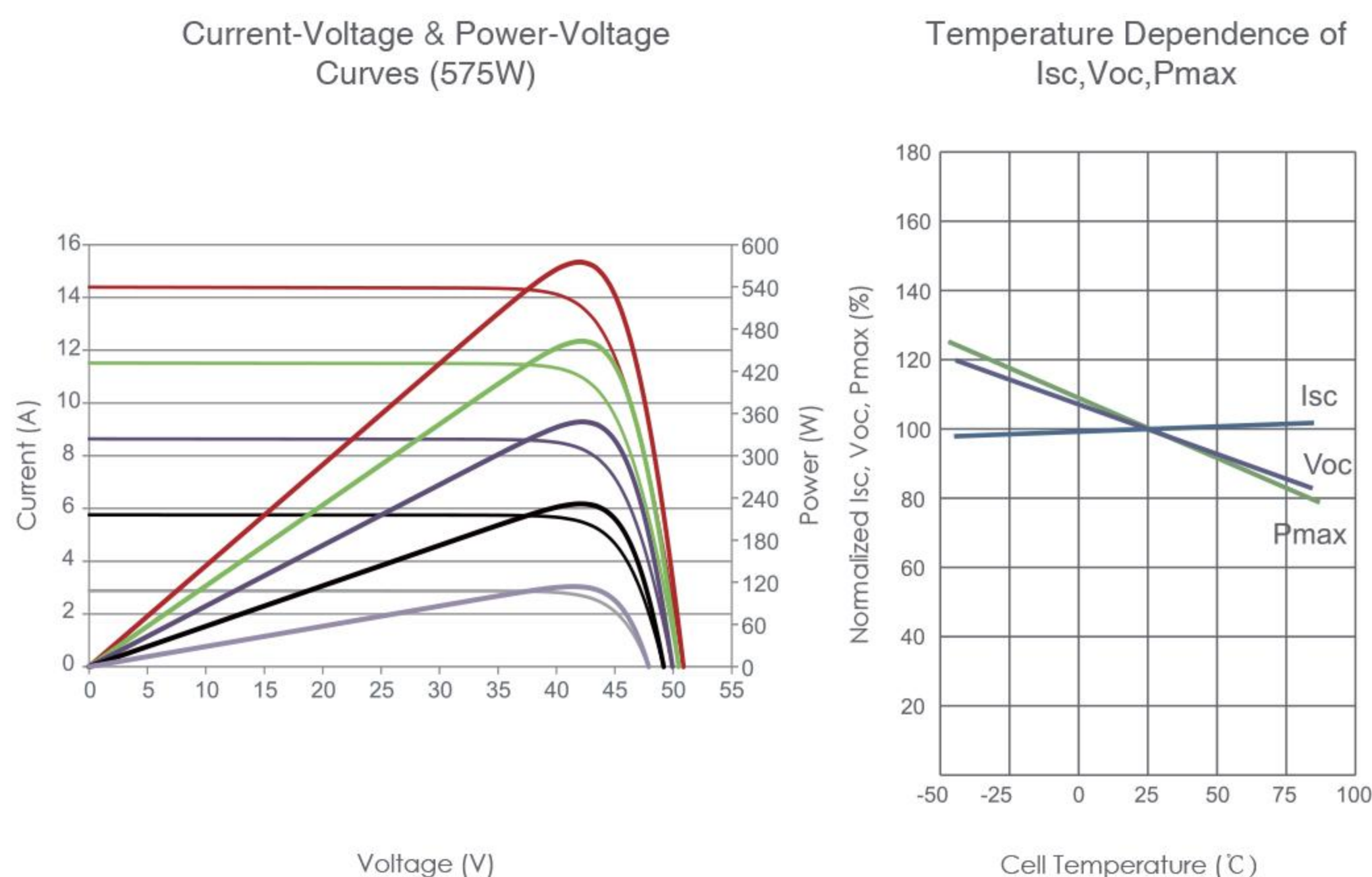
Engineering Drawings



Packaging Configuration

31pcs/pallets, 62pcs/stack, 620pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
NO.of cells	144 (2×72)
Dimensions	2278×1134×35mm
Weight	27.0kgs
Output Cables	TUV 1X4.0mm ²
Junction Box	IP68 Rated

