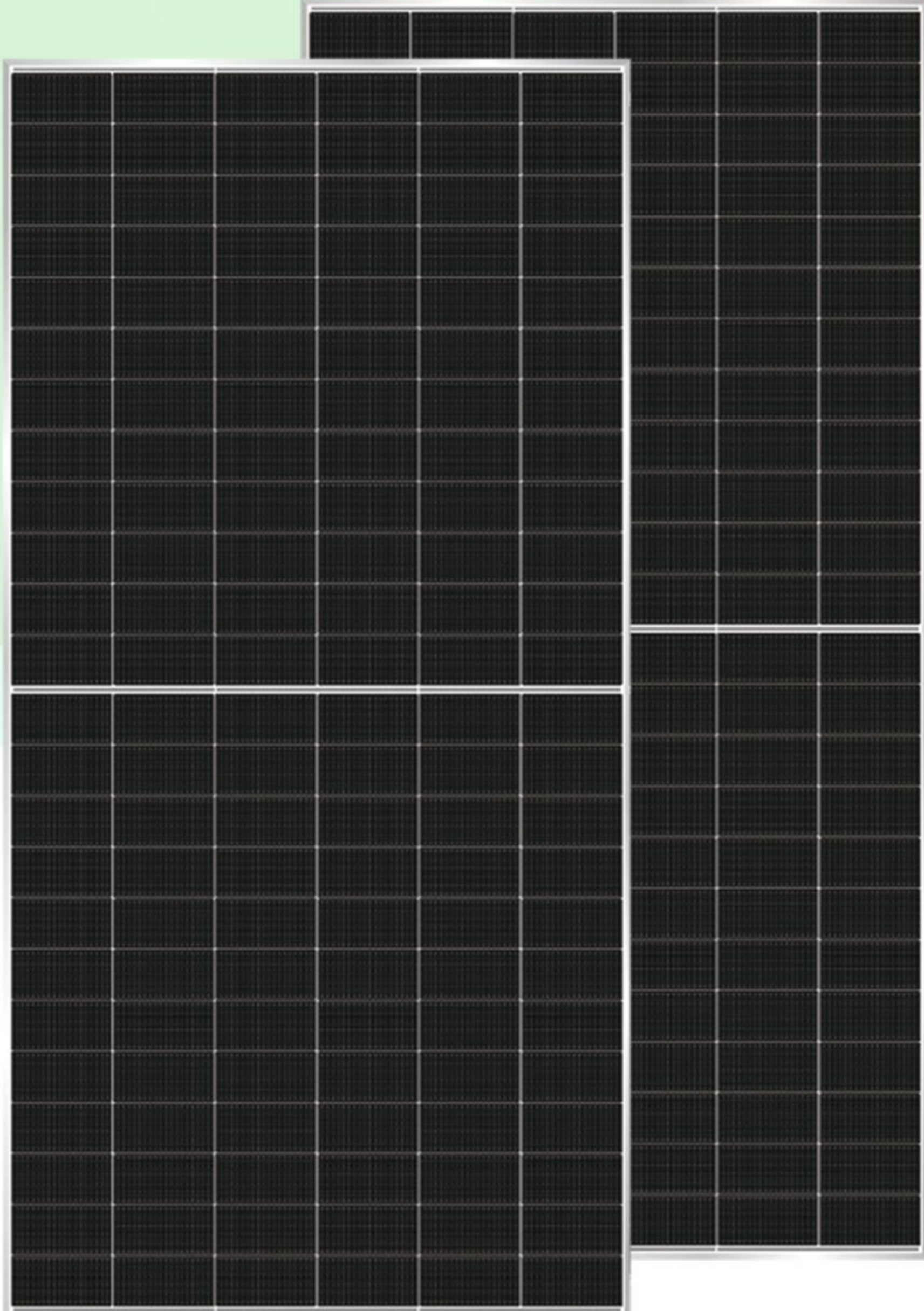




FY 182-144NDG

BIFACIAL MODULE WITH DUAL GLASS

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.



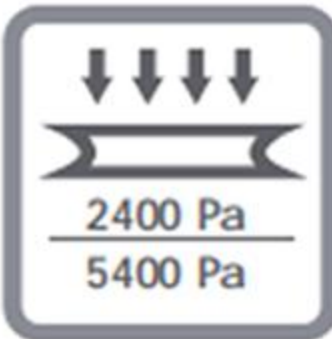
Hot 2.0 Technology

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

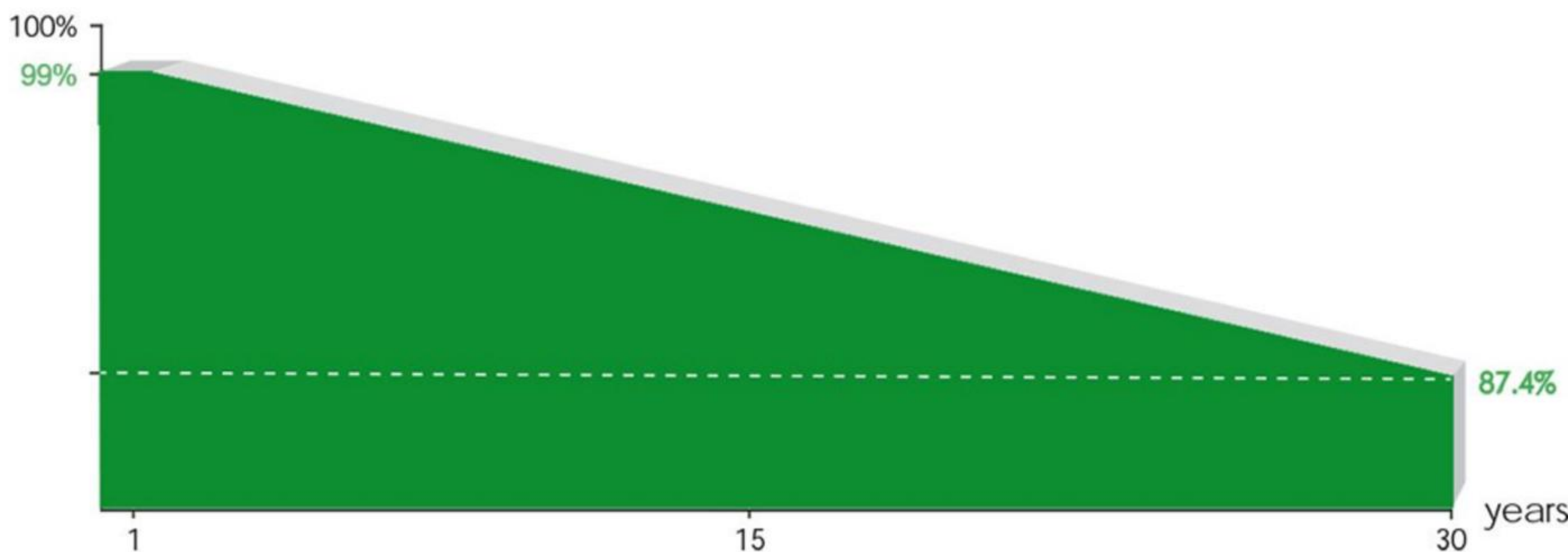
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Higher Power Output

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

LINEAR PERFORMANCE WARRANTY



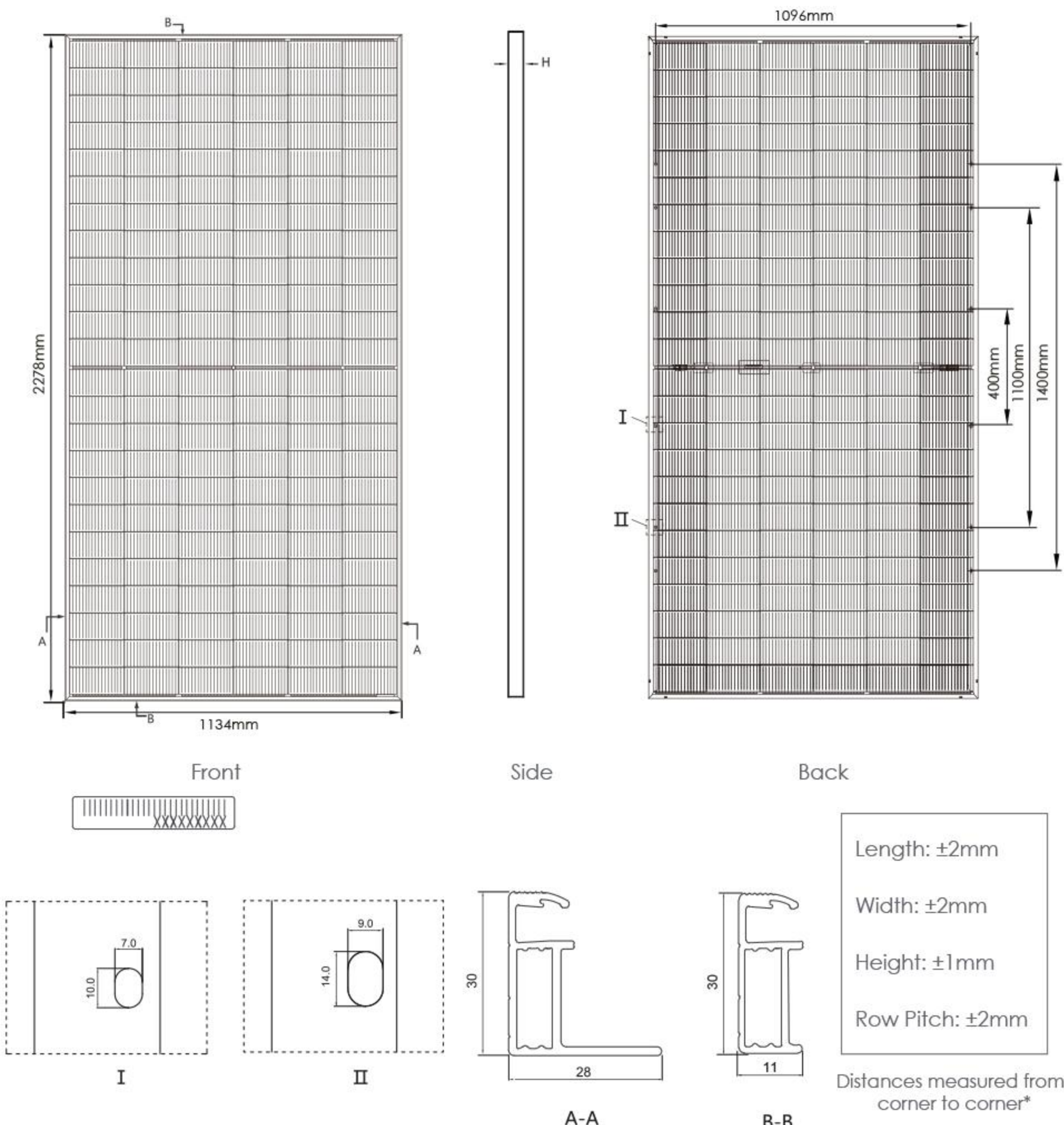
12 Years Product Material & Workmanship

30 Years Linear Performance Warranty

SPECIFICATIONS

Module Type	FY-144-570NDG		FY-144-575NDG		FY-144-580NDG		FY-144-585NDG		FY-144-590NDG	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Maximum Power (Pmax)	570W	430W	575W	433W	580W	437W	585W	441W	590W	445W
Voltage at Maximum power (Vmpp)	43.58V	40.56V	43.73V	40.73V	43.88V	40.89V	44.02V	41.05V	44.17V	41.21V
Current Maximum Power (Impp)	13.08A	10.59A	13.15A	10.64A	13.22A	10.69A	13.29A	10.74A	13.36A	10.79A
Open Circuit Voltage (Voc)	52.10V	39.60V	52.30V	39.75V	52.50V	39.90V	52.70V	40.05V	52.90V	40.20V
Short Circuit Current (Isc)	13.83A	11.16A	13.89A	11.21A	13.95A	11.26A	14.01A	11.31A	14.07A	11.36A
MODULE EFFICIENCY (%)	22.07%		22.26%		22.45%		22.65%		22.84%	
Maximum system voltage					1500 DC (IEC)					
Maximum series fuse rating					30A					
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					

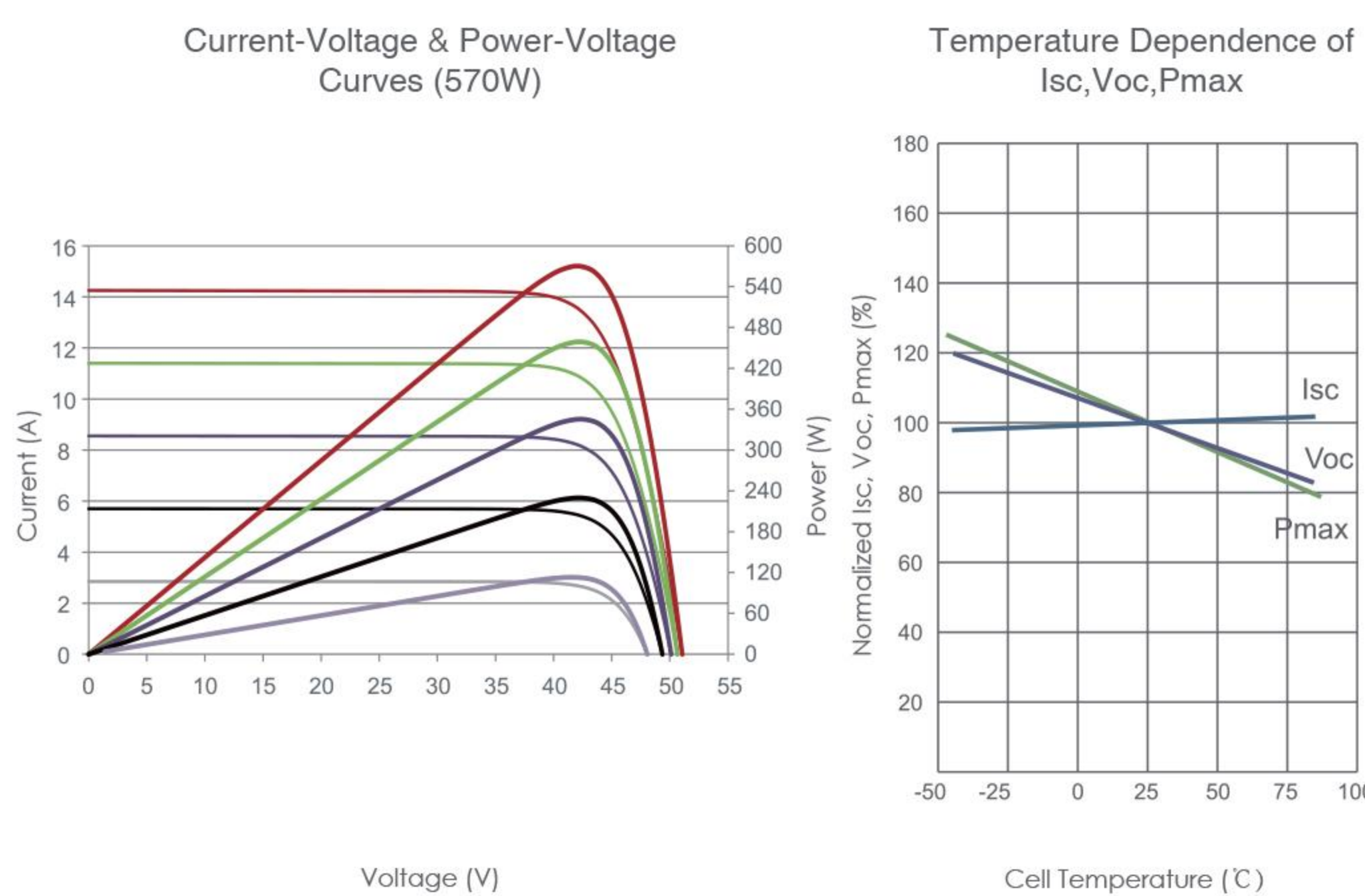
Engineering Drawings



Packaging Configuration

36pcs/pallets, 72pcs/stack, 720pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
NO.of cells	144 (2×72)
Dimensions	2278×1134×30mm
Weight	31.0kgs
Output Cables	TUV 1X4.0mm ²
Junction Box	IP68 Rated

