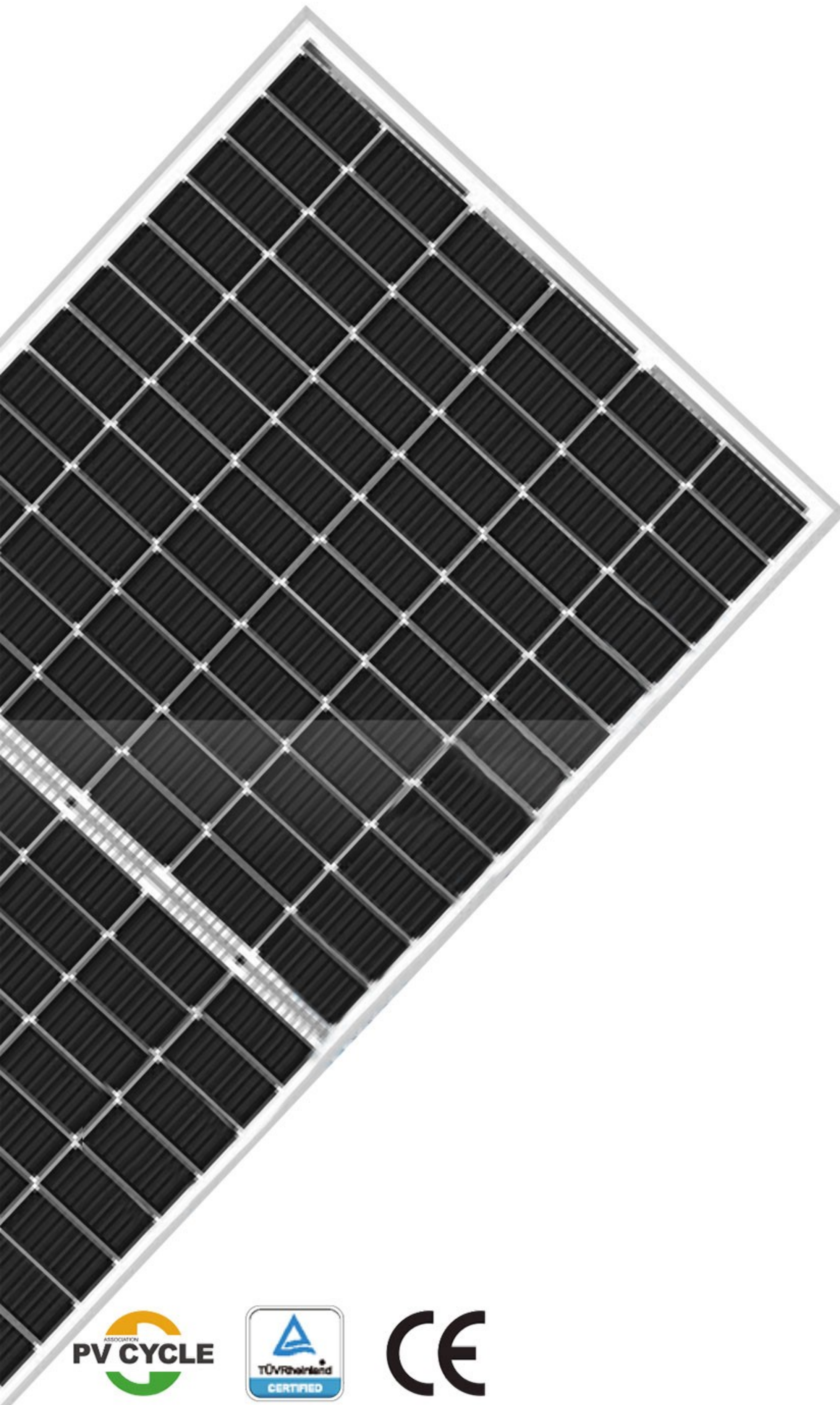
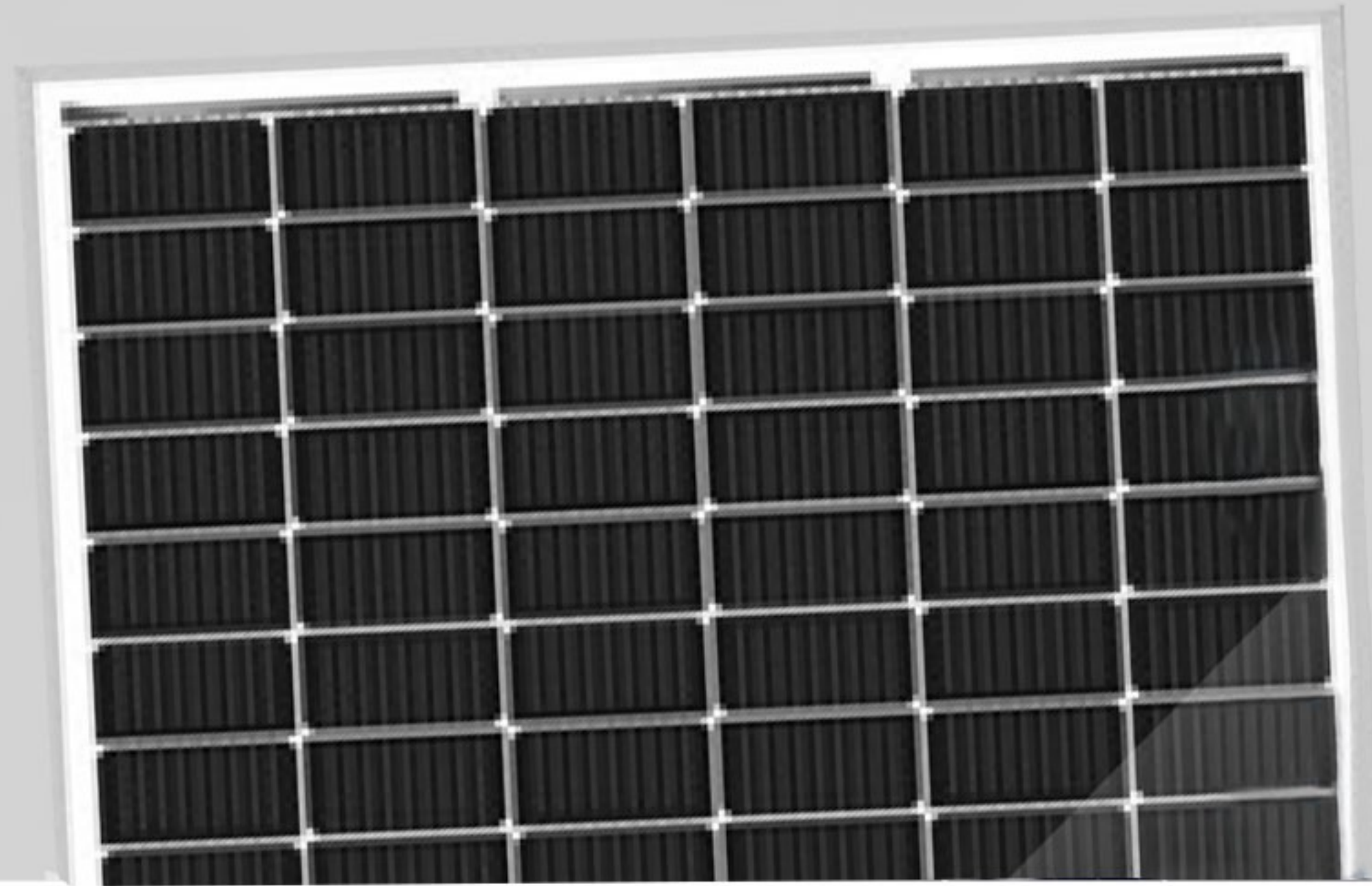


NOMO 520-540W

MONOCRYSTALLINE MODULE

Positive power tolerance (0~ +5W) guaranteed

IEC 61215, IEC 61730, UL 61730.
ISO 9001:2015: ISO Quality Management System.
ISO 14001:2015: ISO Environment Management System.
TS62941: Guideline for module design qualification and type approval.
OHSAS 18001: 2007 Occupational Health and Safety.



High Efficiency Low LID Mono PERC with Half-cut Technology

Positive power tolerance (0 ~ +5W) guaranteed

High module conversion efficiency (up to 20.90%)

Slower power degradation enabled by Low LID Mono PERC technology
first year <2.5%, 0.56% year 2-25

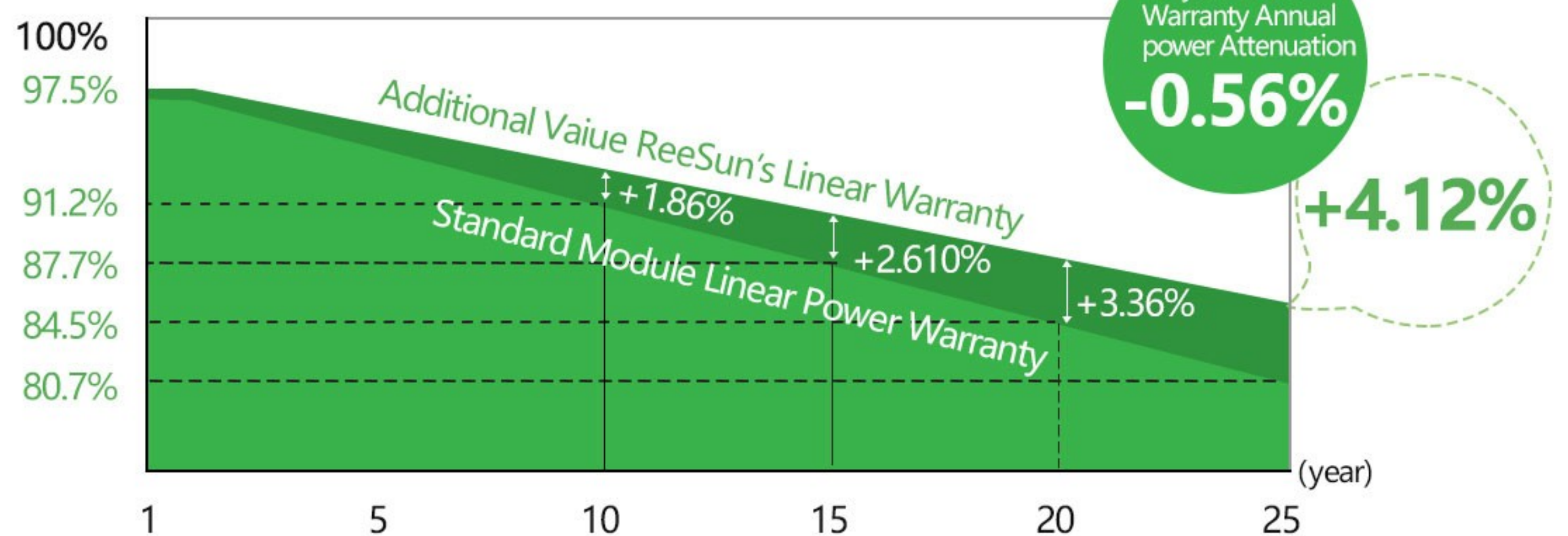
Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

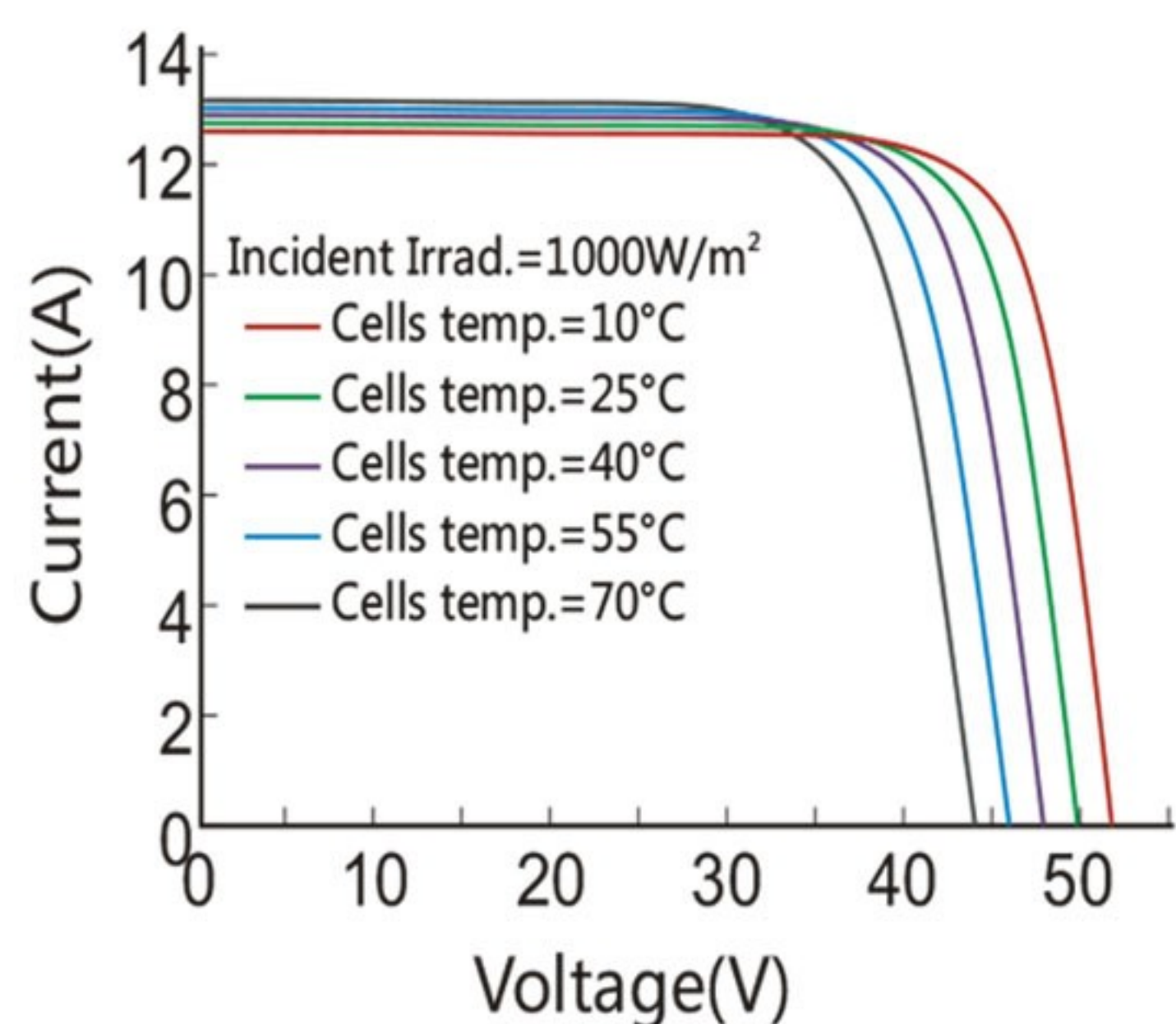
Reduced hot spot risk with optimized electrical design and lower operating current

**12-year Warranty for Materials and Processing;
25-year Warranty for Extra Linear Power Output.**

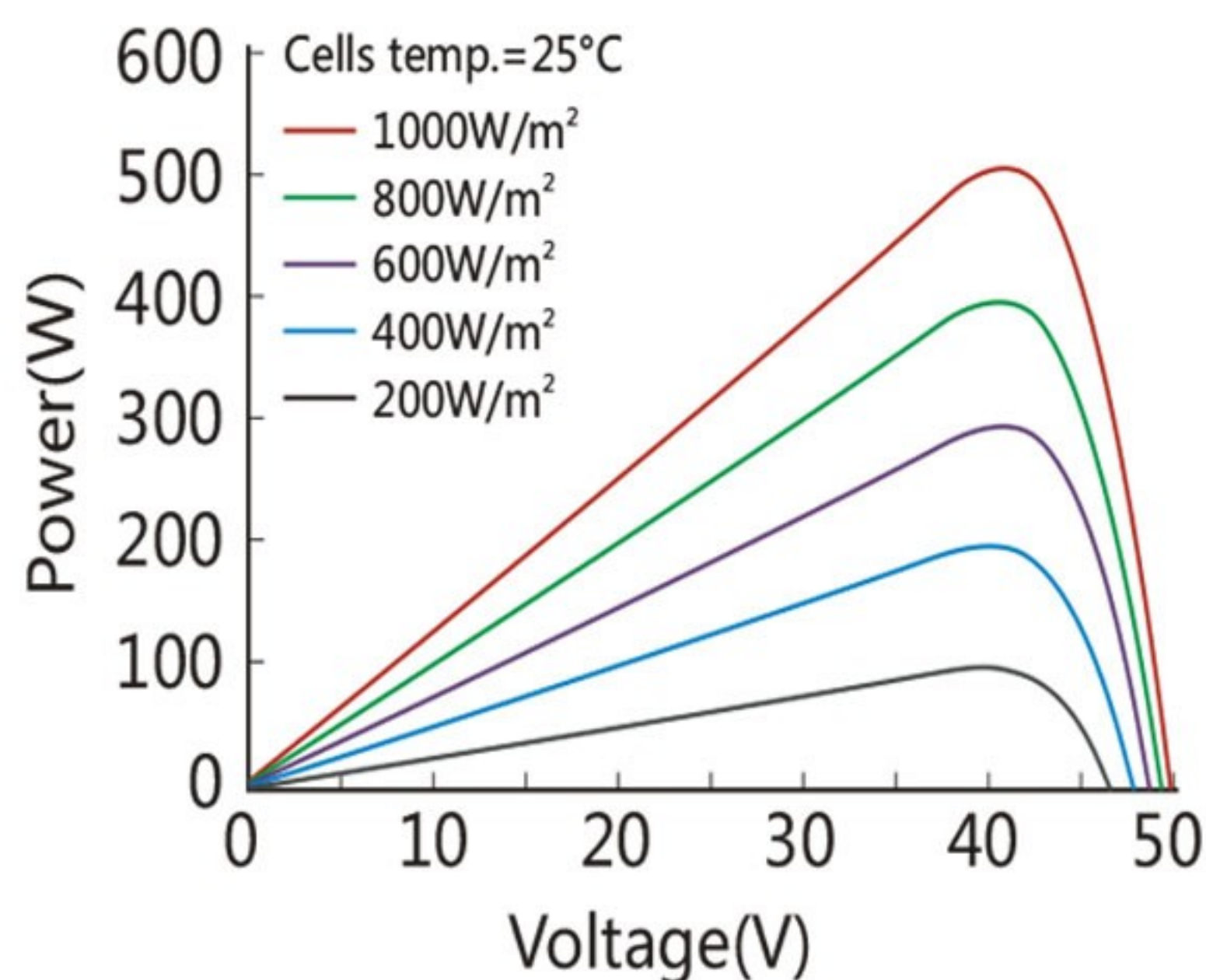


I-V Curve (NM144H-182M-530W)

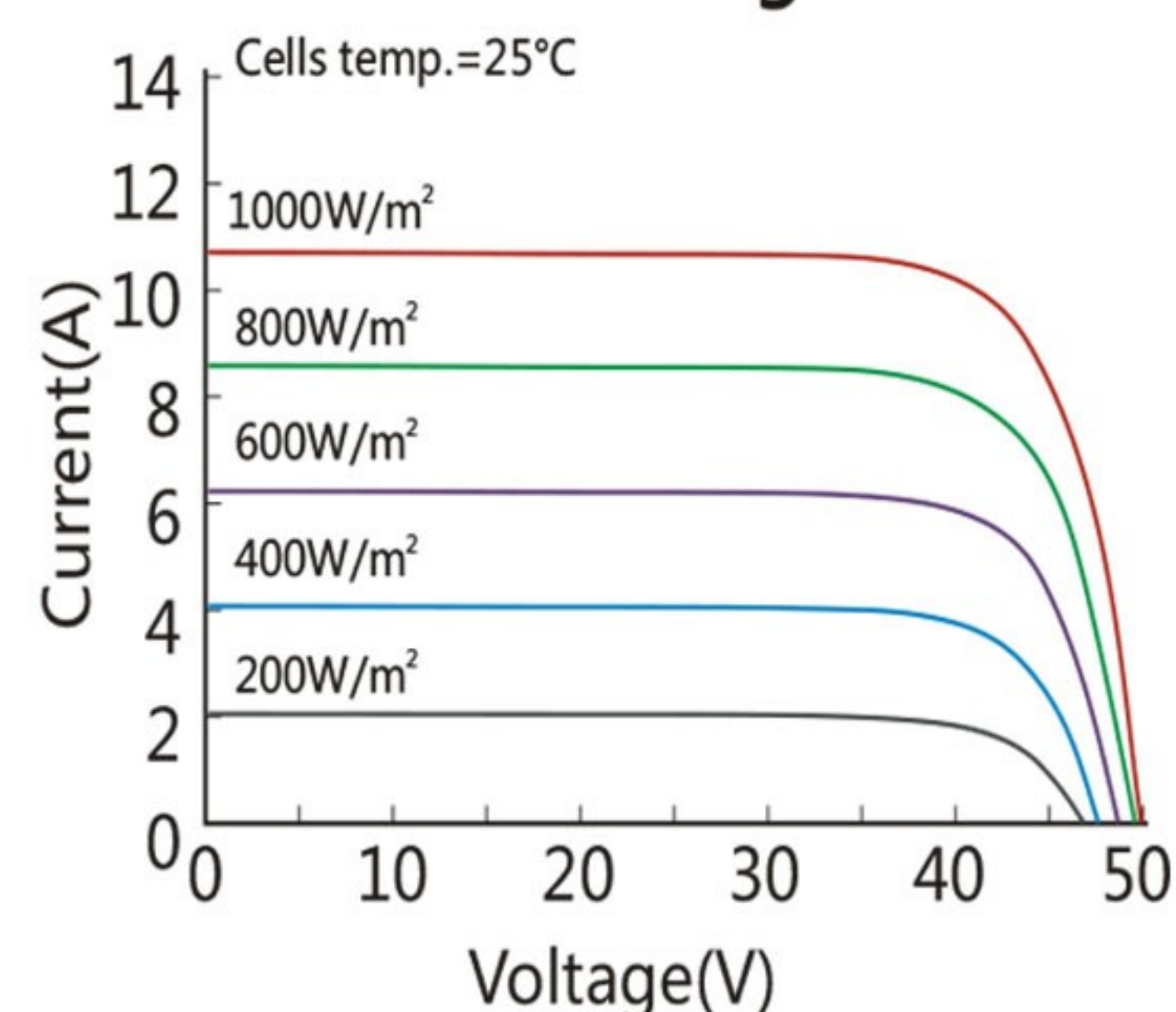
Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve



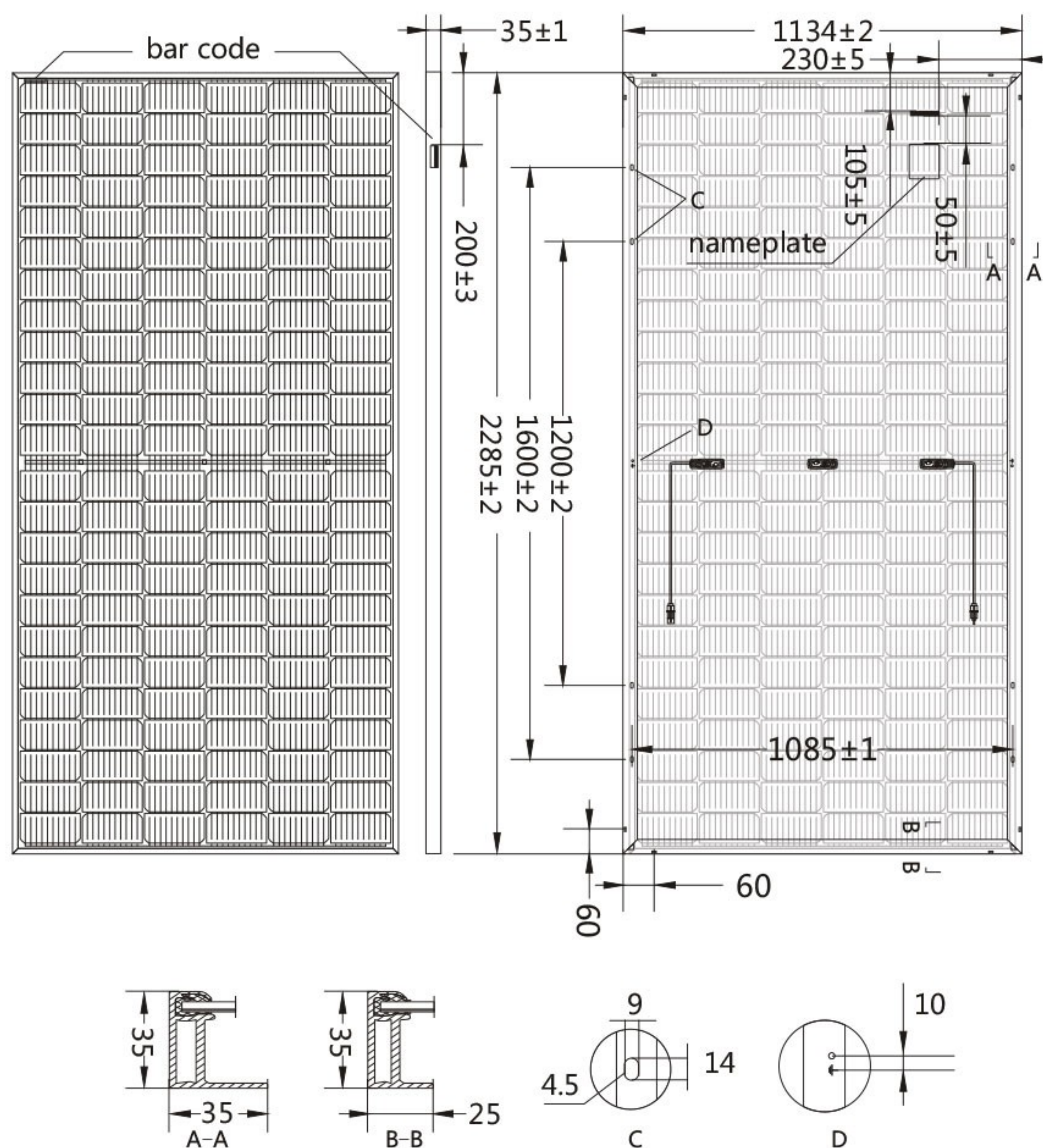
Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	520W		525W		530W		535W		540W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	520	387	525	391	530	394	535	398	540	402
Voltage at Maximum Power (Vmp/V)	40.47	37.63	40.61	37.78	40.74	37.92	40.88	38.05	41.01	38.19
Current at Maximum Power (Imp/A)	12.85	10.28	12.93	10.34	13.01	10.40	13.09	10.46	13.17	10.52
Open Circuit Voltage (Voc/V)	48.99	46.24	49.13	46.37	49.26	46.50	49.40	46.63	49.53	46.75
Short Circuit Current (Isc/A)	13.53	10.93	13.61	10.99	13.69	11.06	13.77	11.12	13.85	11.19
Module Efficiency (%)	20.13		20.32		20.51		20.71		20.90	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectra at AM1.5
 NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

Design (mm)



Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.350%/°C

Mechanical Loading

TFront Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Mechanical & Operating Parameters

Cell Orientation	120 (6×20)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 300mm in length, length can be customized
Glass	Single glass 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	24.5kg
Dimension	1908×1134×35mm
Packaging	31pcs/pallet 744pcs/40'HC
Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0~+5 W
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	20A
Nominal Operating Cell Temperature	45±2°C
Safety Class	Class II
Fire Rating	UL