

# P-type ETHBD540-560W (144)

MONO-BIFACIAL

Positive power tolerance of 0~+3%

## KEY FEATURES



### SMBB Technology

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



### Better resistance to heat spots

By optimizing circuit design and working current, better temperature coefficient and heat spot resistance can be obtained.



### PID Resistance

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



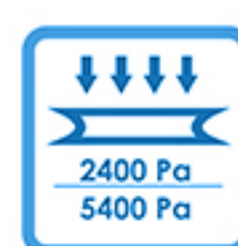
### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



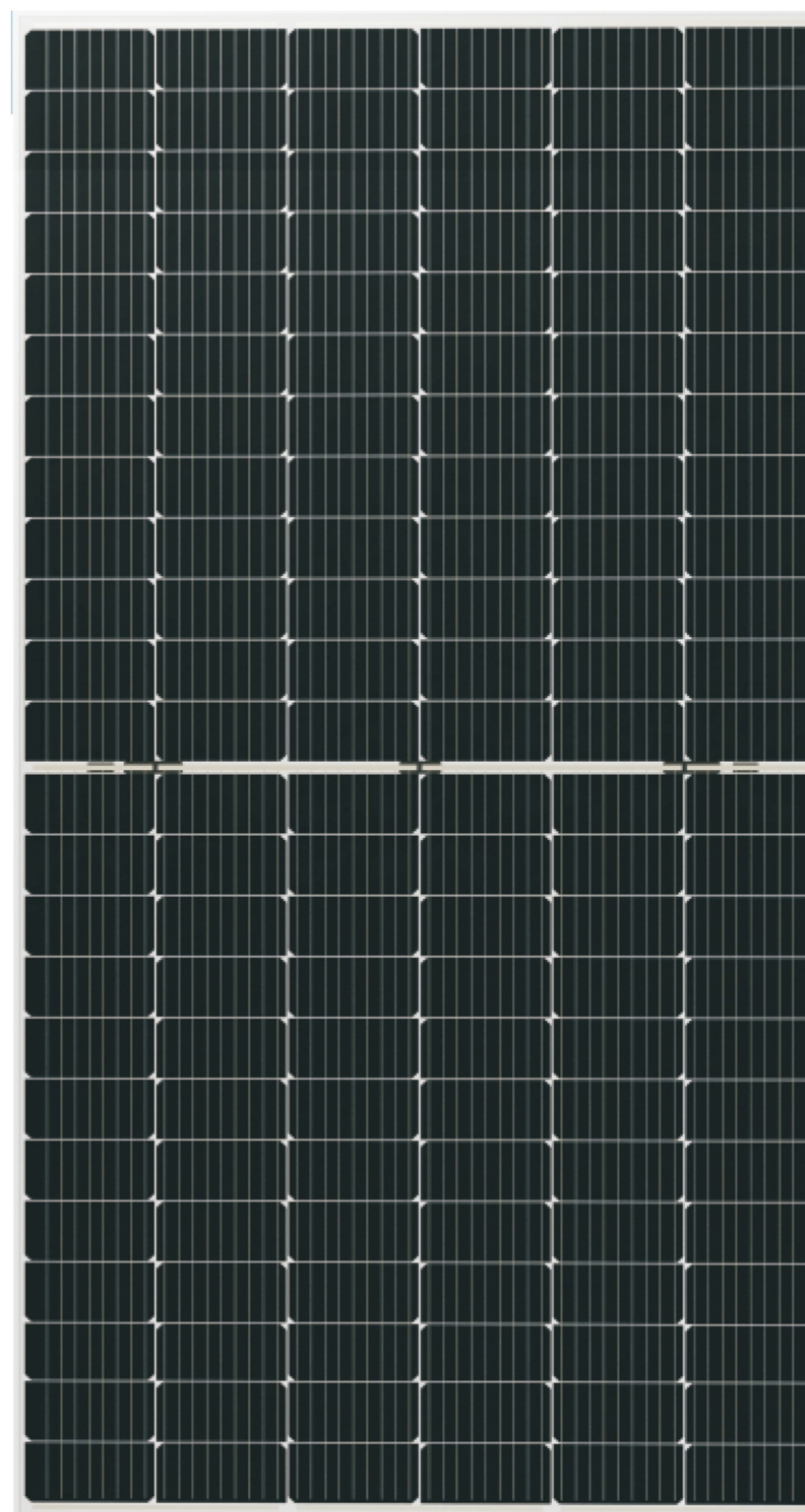
### Duplex power generation

The power gain on both sides increases with the light received on the back, up to 25%.

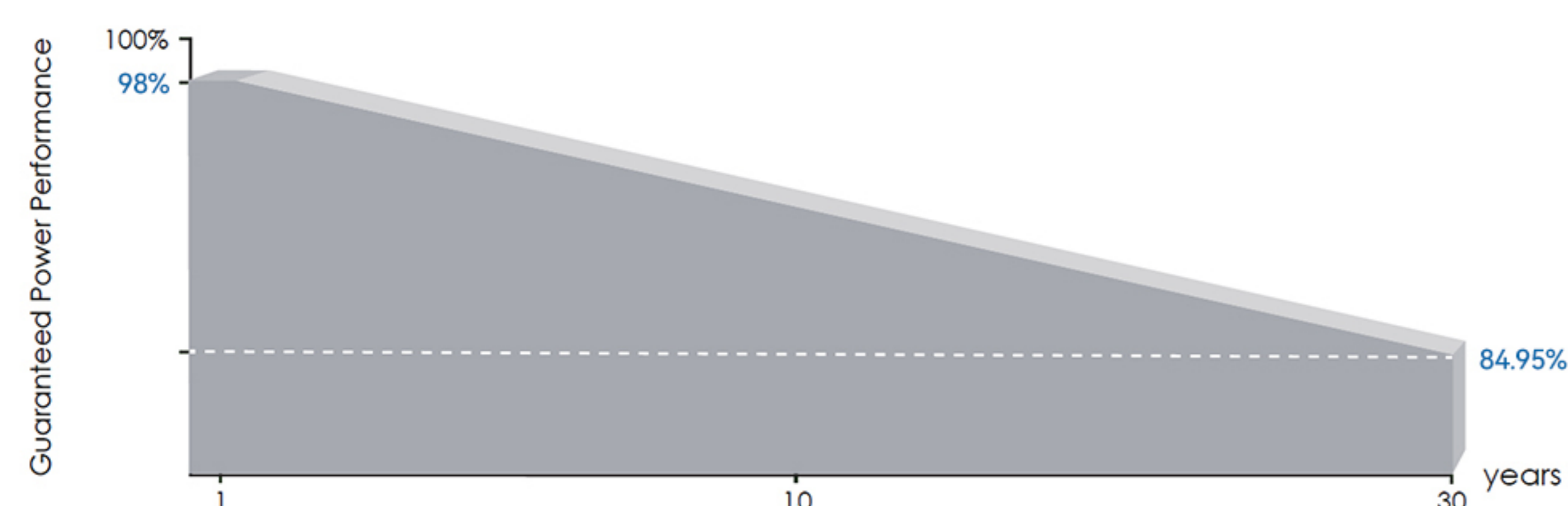


### Enhanced Mechanical Load

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



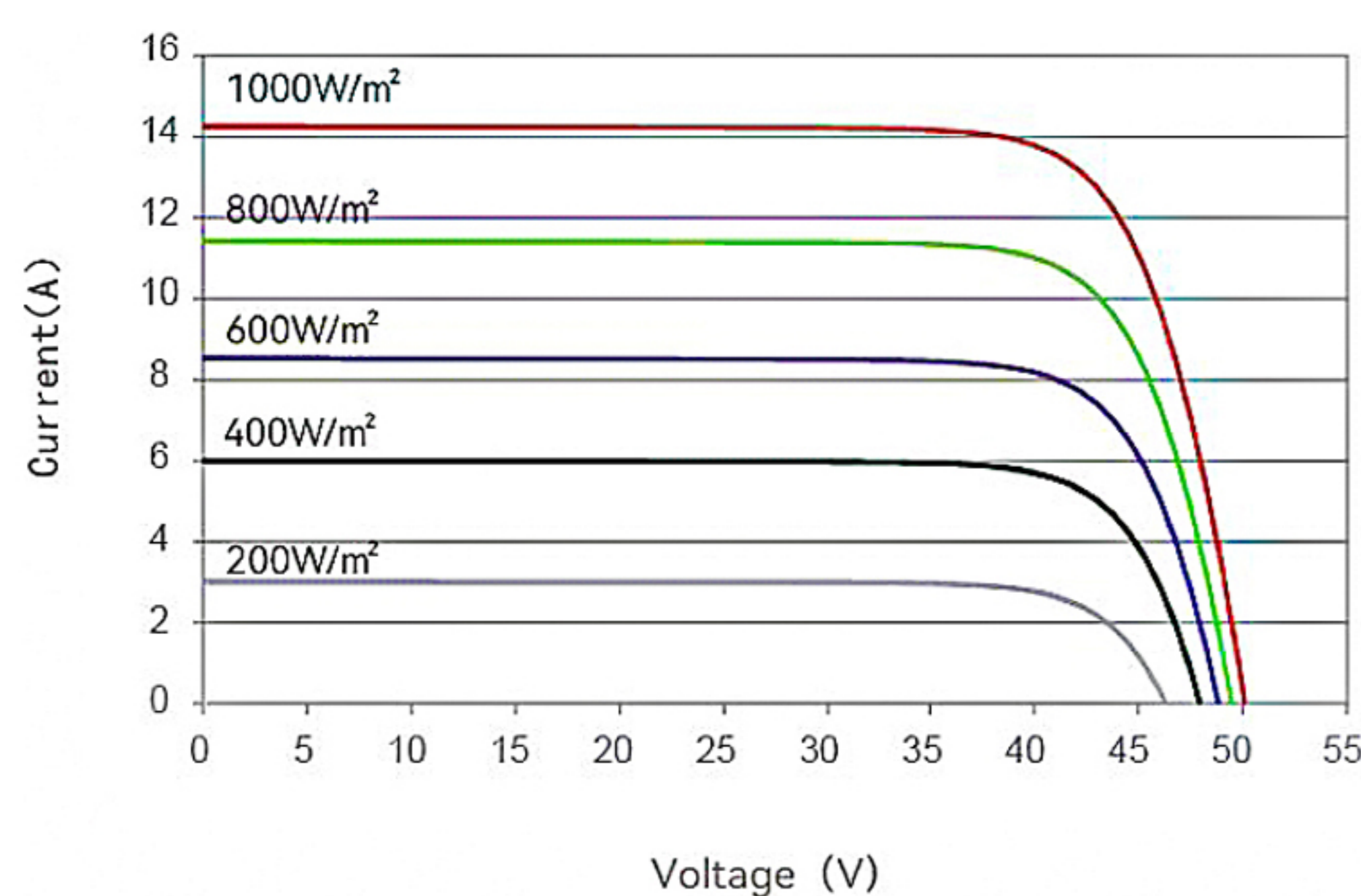
## LINEAR PERFORMANCE WARRANTY



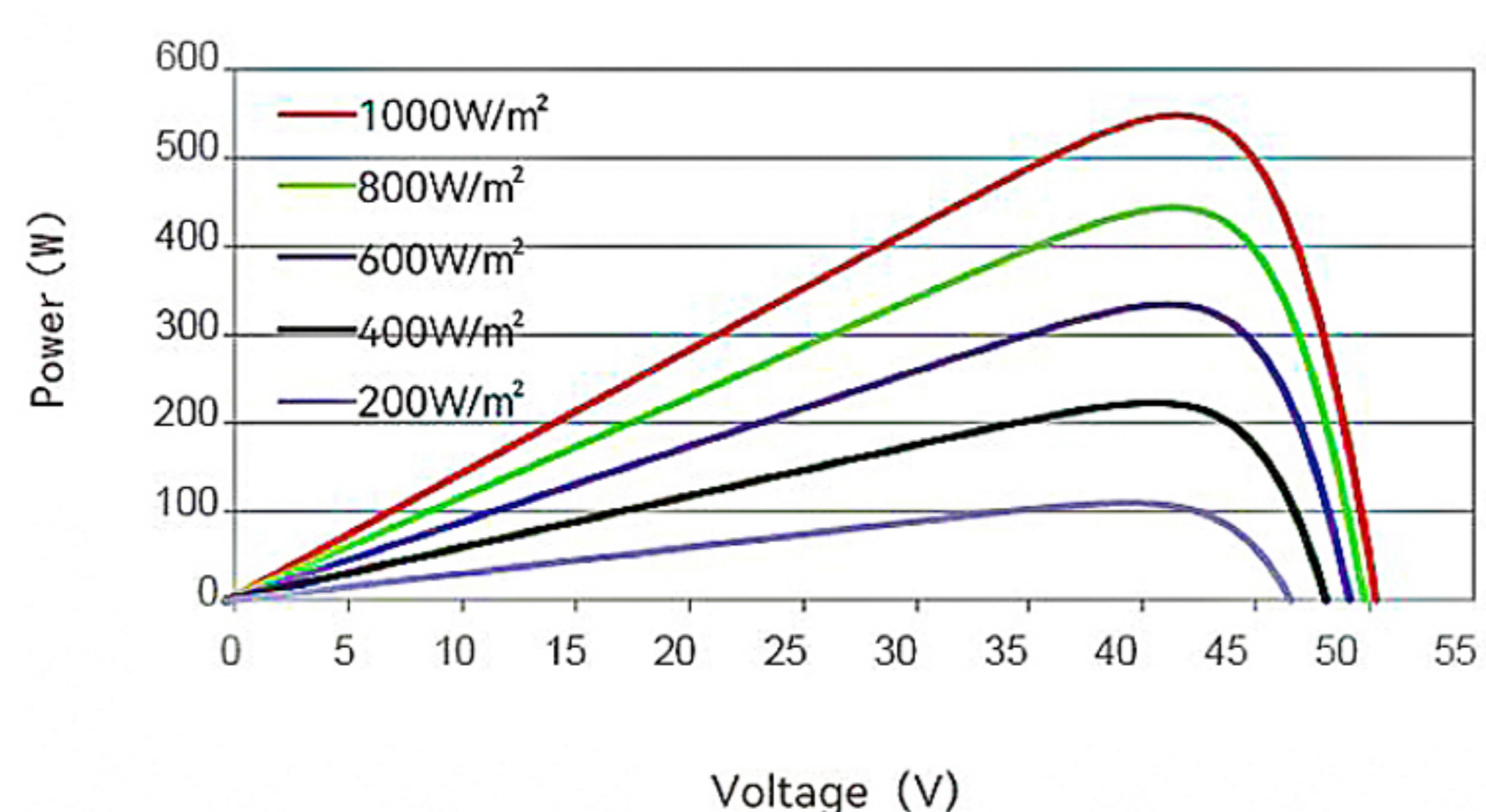
- 12 Year Product Warranty
- 30 Year Linear Power Warranty
- 0.40% Annual Degradation Over 30 years



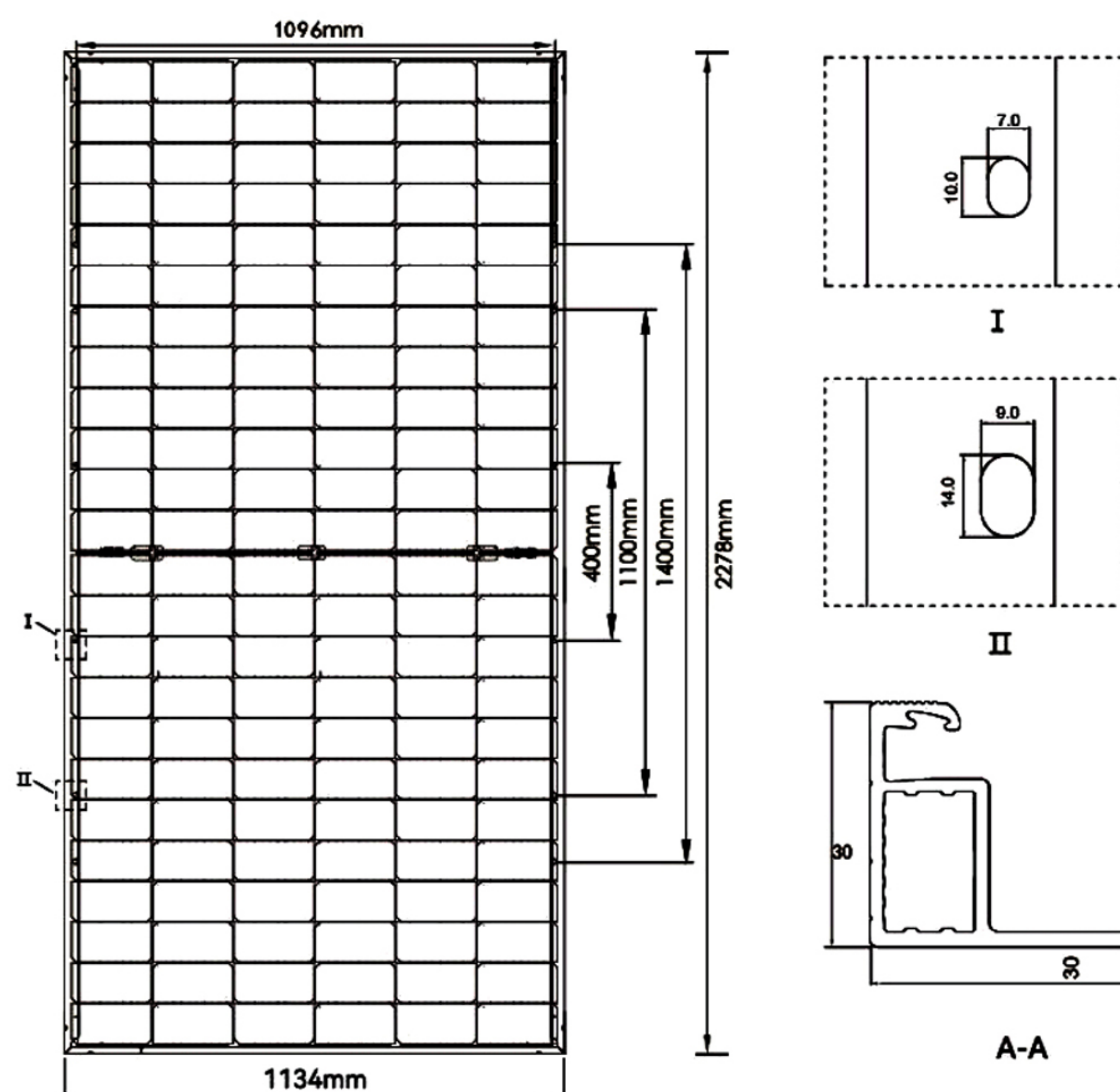
# ETHBD540-560W (144)



I-V curve



P-V curve



## Electrical Parameters (STC\*)

Maximum Power(W)	540	545	550	555	560
Maximum Power Voltage(V)	41.63	41.79	41.95	42.11	42.27
Maximum Power Current(A)	12.97	13.04	13.11	13.18	13.25
Open Circuit Voltage(V)	49.60	49.75	49.90	50.05	50.20
Short Circuit Current(A)	13.94	14.02	14.09	14.17	14.24
Module Efficiency(%)	20.90	21.10	21.29	21.48	21.68
Power Tolerance	0~+3%				

\* Irradiance 1 000W/m2, Module Temperature 25°C, Air Mass 1.5

## Mechanical Parameters

Cell Type	182x91 mm Pere
No. of cells	144cells (2x72)
Dimensions	2278x1134x30mm
Weight	30KG
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Silver, Anodized Aluminium Alloy
Junction Box	IP68 Rated,MC4 Compatible
Output Cables	4 mm², 300 mm Standard

## Electrical Parameters (NOCT\*)

Maximum Power(W)	402.3	406.0	409.8	413.5	417.2
Maximum Power Voltage(V)	38.53	38.68	38.82	38.97	39.12
Maximum Power Current(A)	10.44	10.50	10.55	10.61	10.66
Open Circuit Voltage(V)	46.50	46.64	46.78	46.92	47.06
Short Circuit Current(A)	11.22	11.28	11.34	11.40	11.47

\* Irradiance 800W/m2, Ambient Temperature 20°C, Wind Speed 1 m/s

## Temperature Coefficient

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Isc	0.048%/°C
Temperature Coefficient of Voe	-0.28%/°C
Temperature Coefficient of Pmax	-0.35%/°C

## Backside Power Gain (For 550W)

Backside Power Gain(%)	10%	15%	20%	25%	30%
Maximum Power(Pmax/W)	605.0	632.5	660.0	687.5	715.0
Open Circuit Voltage(Voc/V)	49.84	49.84	49.94	49.94	49.94
Short Circuit Current(Isc/A)	15.38	16.08	16.78	17.48	18.17
Maximum Power Voltage(Vmp/V)	41.99	41.99	42.09	42.09	42.09
Maximum Power Current(Imp/ A)	14.41	15.06	15.68	16.33	16.99

## Application Parameters

Operational Temperature(°C)	-40°C~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A
Wind/ Snow Load	2400Pa/5400Pa
Packaging Configuration	36PCS/PL T,720PCS/40HQ



Add: Unit 2101 NO.8, Chengyi North Street, Software Park Phase III, High-tech Zone, Xiamen City, China

Tel: +86-592-7100680 +86 13225963563

Email:sales1@eitaichina.cn

Website: <https://eitai.en.alibaba.com>