



# TUNGHSU



## 166 series

## Mono solar modules

## 120 cells double-glass multi-busbar

## half-cut modules



# 350-375W

### Tungshu components with high efficiency and high reliability

- \* Advanced production equipment, highly automated process control, world-class production technology
- \* The company has a product research and development laboratory that meets the new ISO/IEC international standards
- \* Excellent weak light performance, resistant to salt spray and ammonia corrosion.
- Passing the certification test of the PV standards.
- \* Certified by international quality management and environmental management system
- \* Application grade: A, Safe grade: II, Fireproofing grade: C

### Comprehensive Products And System Certificates

IEC61215/IEC61730/UL1703/IEC61701/IEC62716  
 ISO 9001: Quality Management System  
 ISO 14001: Environmental Management System  
 ISO 45001: Occupation Health and Safety Management System  
 GB/T 23001-2017: Management system with Integration of Information Technology and Industrialization



### High power output

Double-sided power generation, higher power generation of the module  
 Up to 375w front power and 20.2% module efficiency with half-cut and MBB  
 Reduce BOS cost with higher power bin and 1500V system voltage



### Higher power generation

Lower temperature coefficient (-0.35%) and lower working temperature bring more power generation  
 Half-cell technology brings stronger anti-shadow occlusion ability



### Highly reliable due to stringent quality control

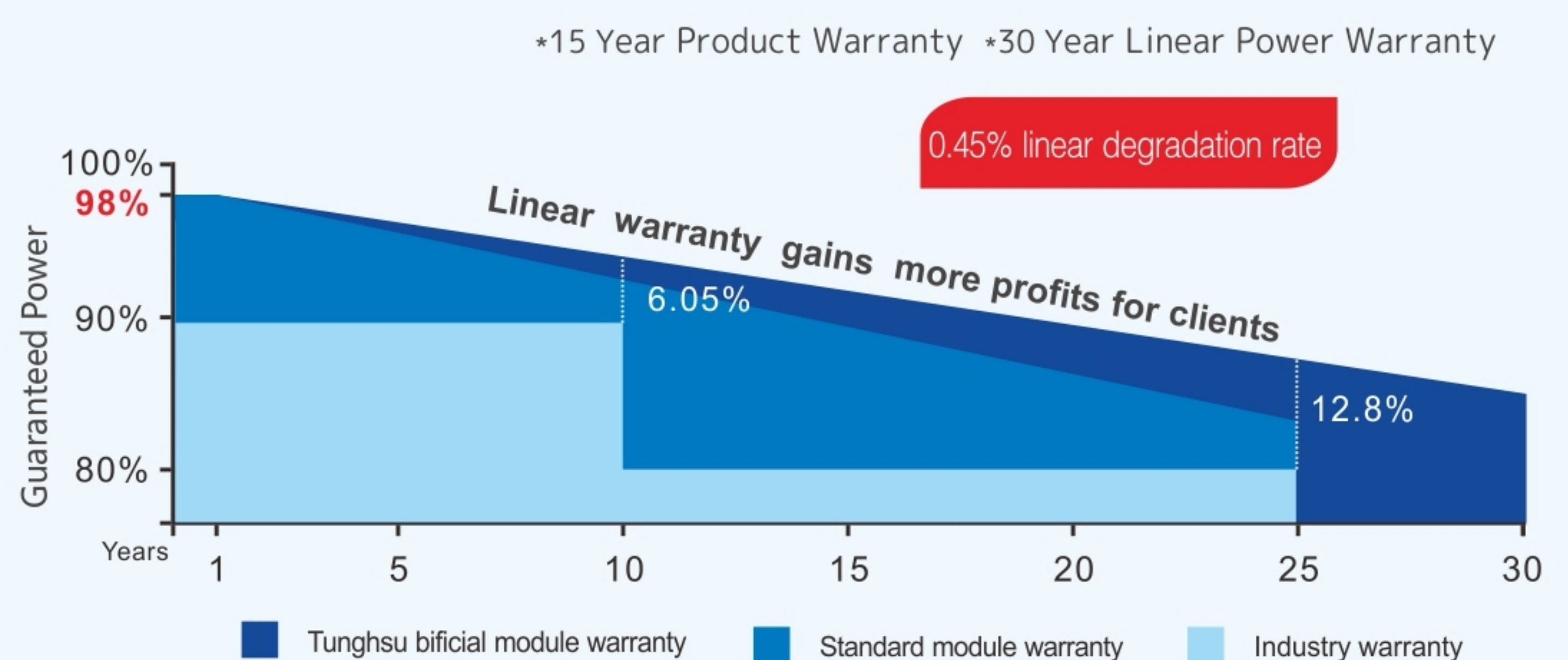
In-house testing goes well beyond certification requirements  
 (UV, TC, HF, PID resistant and many more)



### Certified to withstand the most challenging environmental conditions

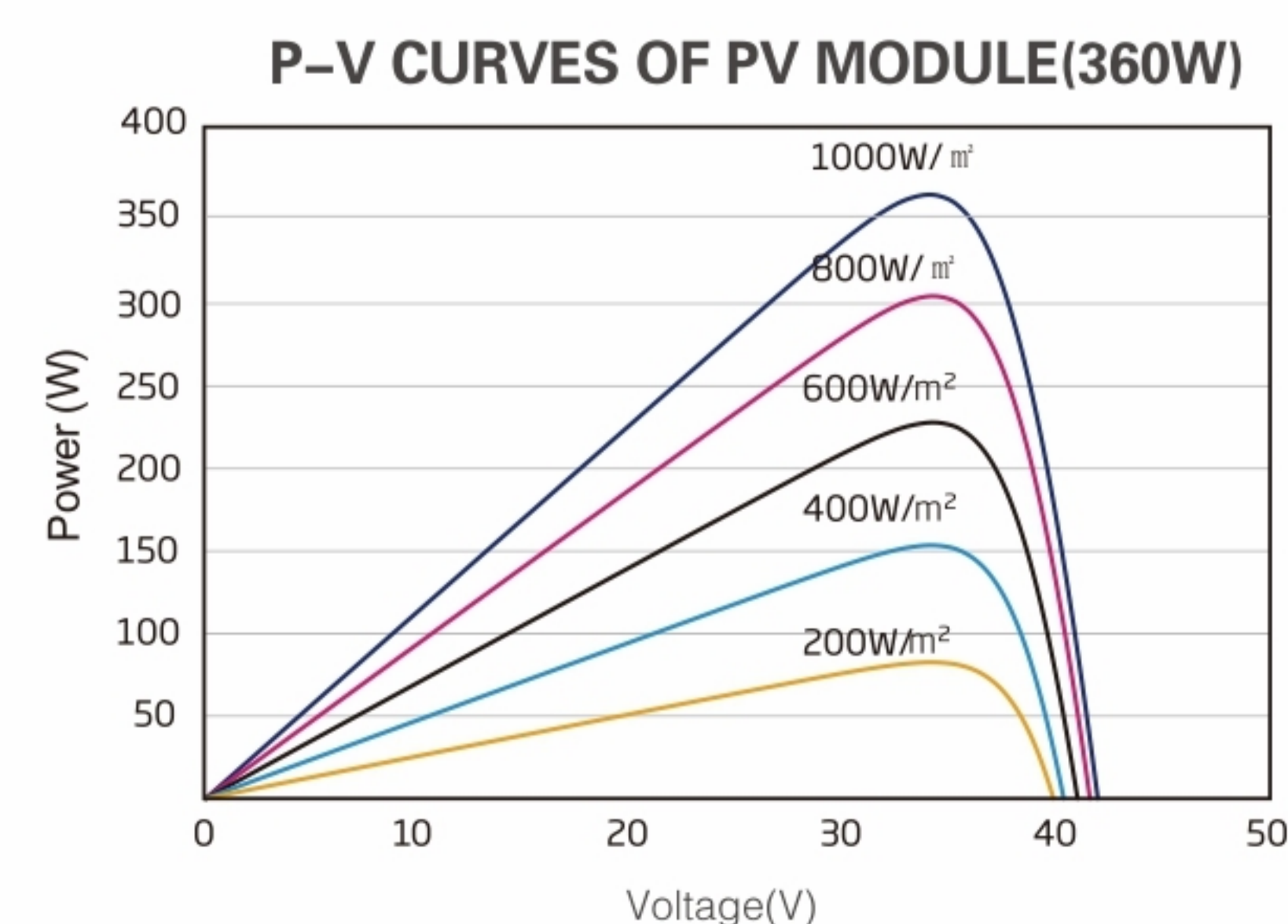
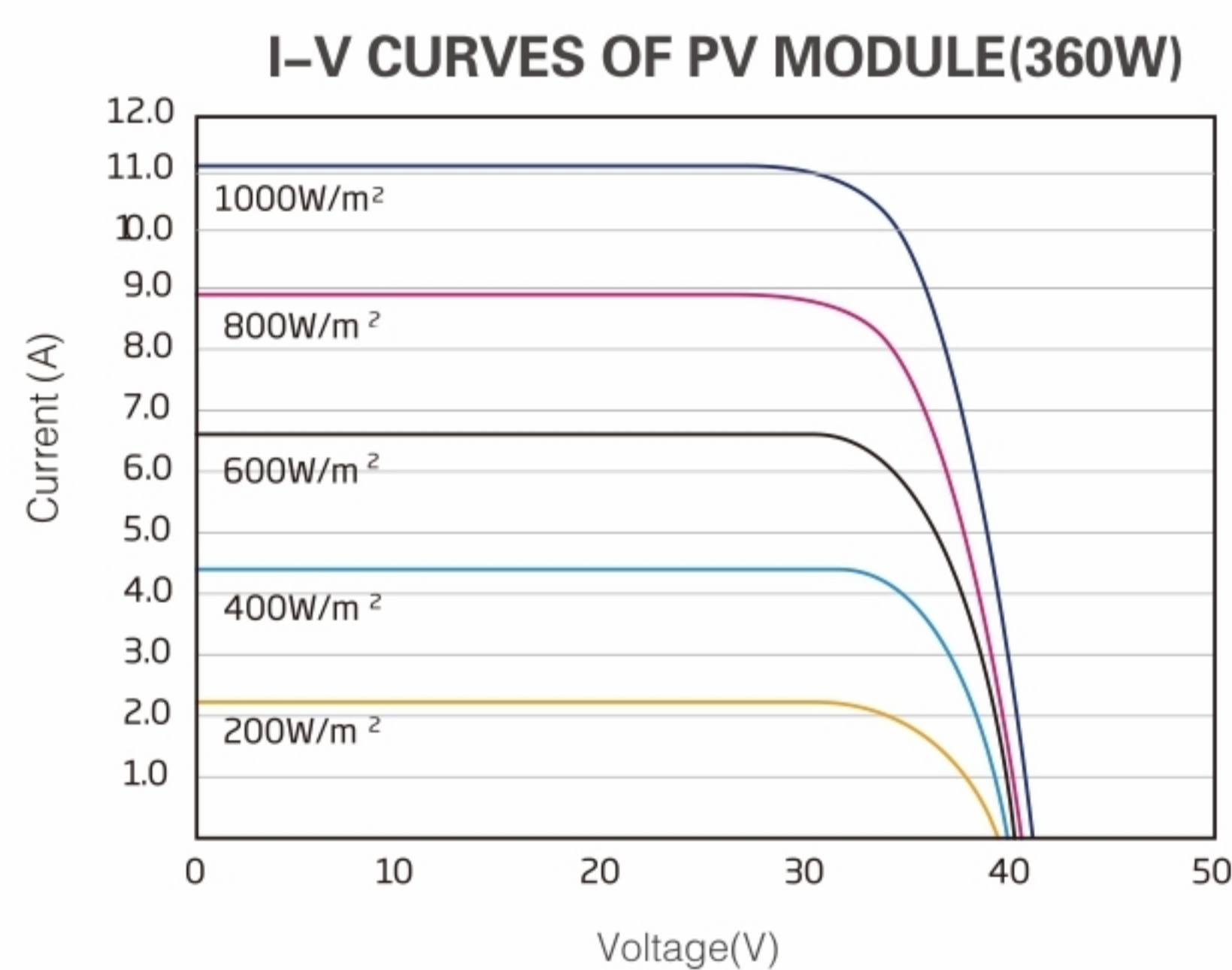
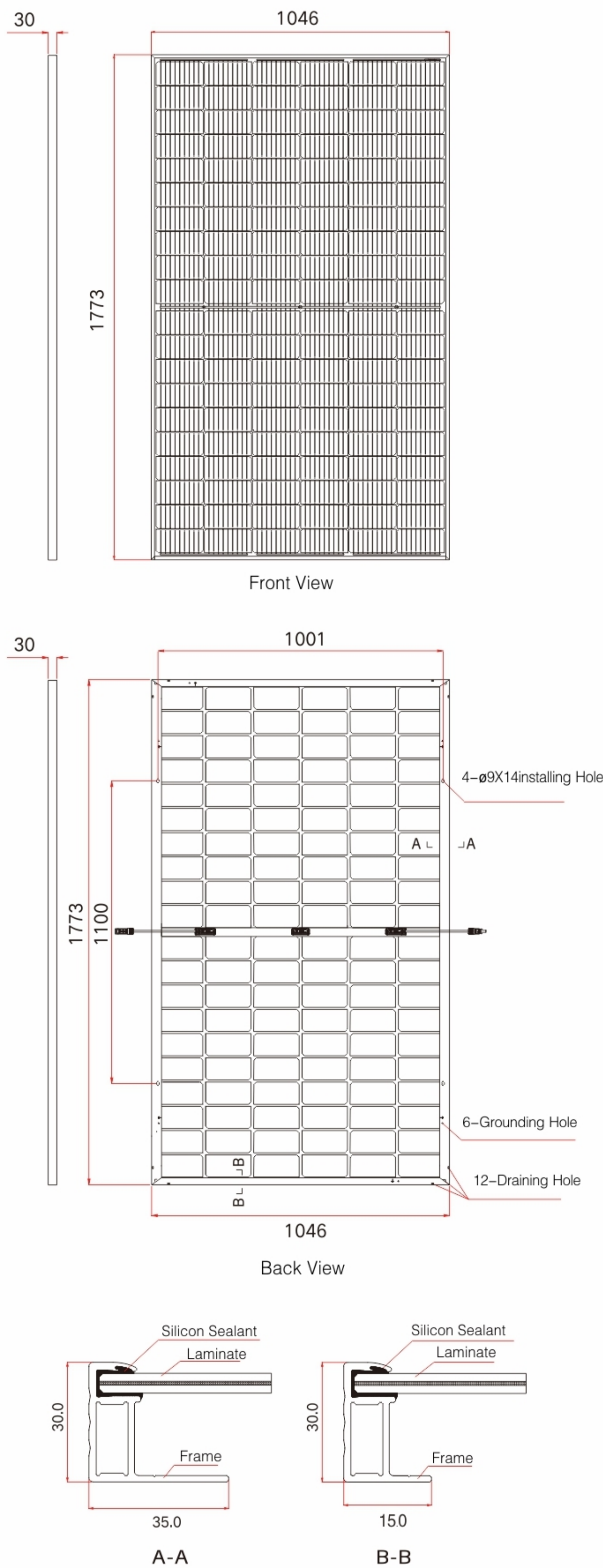
2400 Pa wind load  
 5400 Pa snow load

### Industry-leading linear warranty





### DIMENSIONS OF PV MODULE(mm)



### ELECTRICAL DATA (STC)

Peak Power Watts- $P_{MAX}$ (Wp)	350	355	360	365	370	375
Power Output Tolerance- $P_{MAX}$ (W)	0~ + 5					
Maximum Power Voltage- $V_{MPP}$ (V)	33.4	33.7	34.0	34.3	34.5	34.8
Maximum Power Current- $I_{MPP}$ (A)	10.48	10.53	10.59	10.66	10.72	10.78
Open Circuit Voltage- $V_{OC}$ (V)	40.1	40.4	40.8	41.1	41.4	41.8
Short Circuit Current- $I_{SC}$ (A)	11.00	11.06	11.12	11.19	11.26	11.32
Module Efficiency $\eta_m$ (%)	18.9	19.1	19.4	19.7	20.0	20.2

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

### ELECTRICAL PARAMETERS AND DIFFERENT POWER GAIN BACK (360W)

Maximum Power- $P_{MAX}$ (Wp)	378	396	414	432	450
Maximum Power Voltage- $V_{MPP}$ (V)	34.0	34.0	34.0	34.0	34.0
Maximum Power Current- $I_{MPP}$ (A)	11.12	11.65	12.18	12.71	13.24
Open Circuit Voltage- $V_{OC}$ (V)	40.9	41.0	41.1	41.2	41.3
Short Circuit Current- $I_{SC}$ (A)	11.68	12.23	12.79	13.34	13.90
Power gain (%)	5%	10%	15%	20%	25%

### ELECTRICAL DATA (NOCT)

Maximum Power- $P_{MAX}$ (Wp)	265	268	272	277	280	284
Maximum Power Voltage- $V_{MPP}$ (V)	31.6	31.8	32.1	32.4	32.6	32.9
Maximum Power Current- $I_{MPP}$ (A)	8.39	8.43	8.49	8.54	8.59	8.64
Open Circuit Voltage- $V_{OC}$ (V)	37.9	38.2	38.6	38.8	39.1	39.5
Short Circuit Current- $I_{SC}$ (A)	8.86	8.91	8.95	9.01	9.07	9.11

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

### MECHANICAL DATA

Solar Cells	Monocrystalline(166 × 166mm)
Cell Orientation	120 cells (6 × 20)
Module Dimensions	1773x1046x30mm (69.80 × 41.18 × 1.18 inches)
Weight	25.0kg(66.98lb)
Front Glass	2.0mm (0.08inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	POE/EVA
Rear Glass	2.0mm(0.08inches) heat strengthened glass (white grid)
Frame	30mm (1.18 inches) Anodized Aluminium Alloy
J-Box	Ip67 or IP 68 rated
Cables	4.0mm², 350mm photovoltaic special cable, or customized
Connector	MC4, QC4

NOCT(Nominal Operating Cell Temperature)	41°C (± 3°C)
Temperature Coefficient of $P_{MAX}$	- 0.35%/°C
Temperature Coefficient of $V_{OC}$	- 0.25%/°C
Temperature Coefficient of $I_{SC}$	0.04%/°C

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	20A

(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

### WARRANTY

15 year Product Workmanship Warranty
30 year Linear Power Warranty

### PACKAGING CONFIGURATION

Modules per box: 35 pieces
Modules per 40' container: 770 pieces

Note: Read the safety and installation instructions before using the product.

Affirm: With technological progress and product updates, the technical parameters of Tunghsu Kangtu's later component products may deviate from the technical parameters contained in this specification. Tunghsu Kangtu has the right to adjust various technical parameters at any time without notifying the customer. The final interpretation right of this technical specification belongs to Anhui Tunghsu Kangtu Solar Technology Co., Ltd.



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