



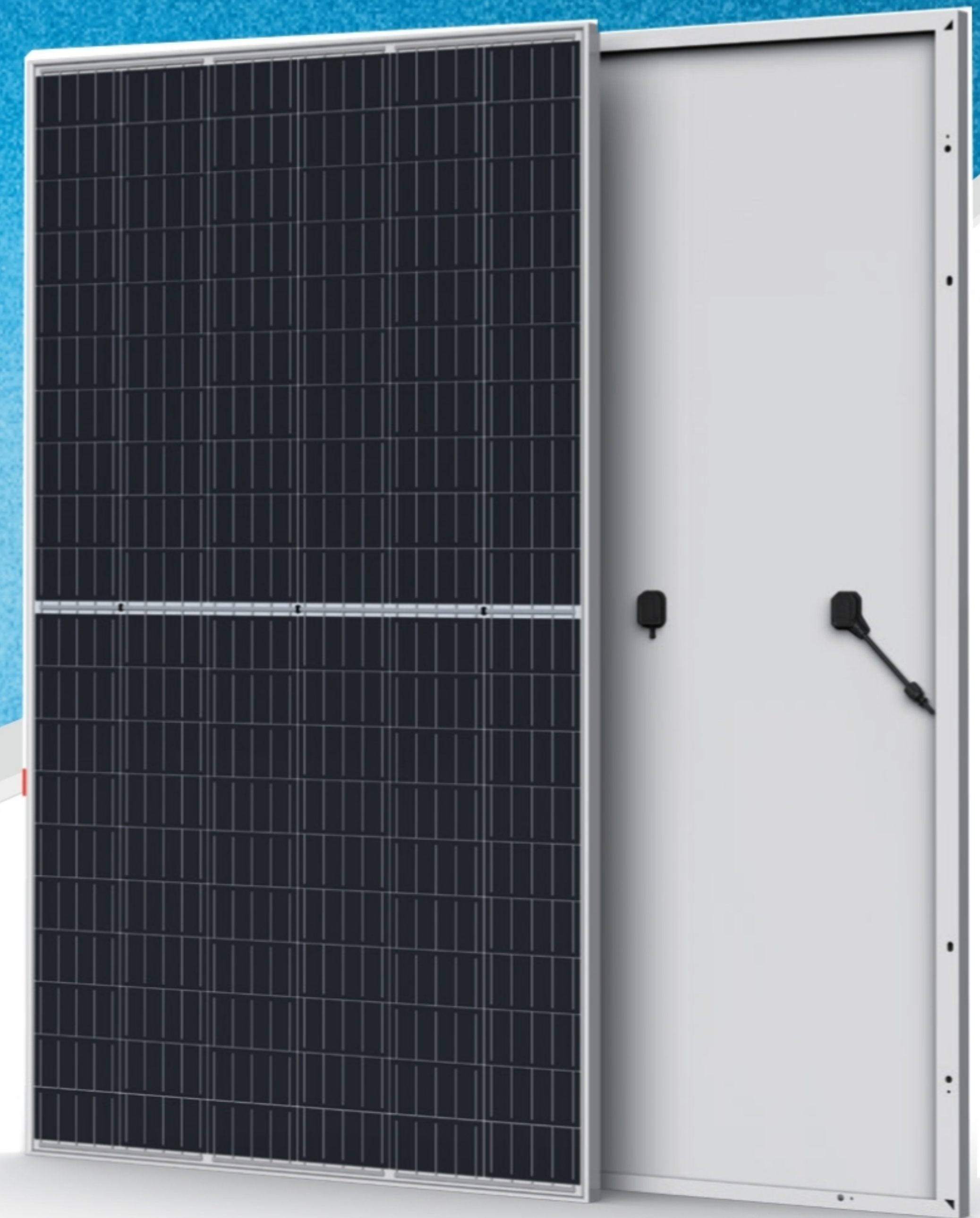
TUNGHSU

158.75 series

Mono solar modules

120 cells single-glass

5-busbar half-cut modules



320-360W

► Tunghsu 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

Reduce BOS cost with higher power bin and 1500V system voltage



Half-cell design brings higher efficiency

New cell string layout and split J-box location to reduce the energy loss caused by shading between modules
 Low thermal coefficients for greater energy production at high operating temperature
 Low cell connection power loss due to half-cell layout (120 monocrystalline)



Highly reliable due to stringent quality control

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

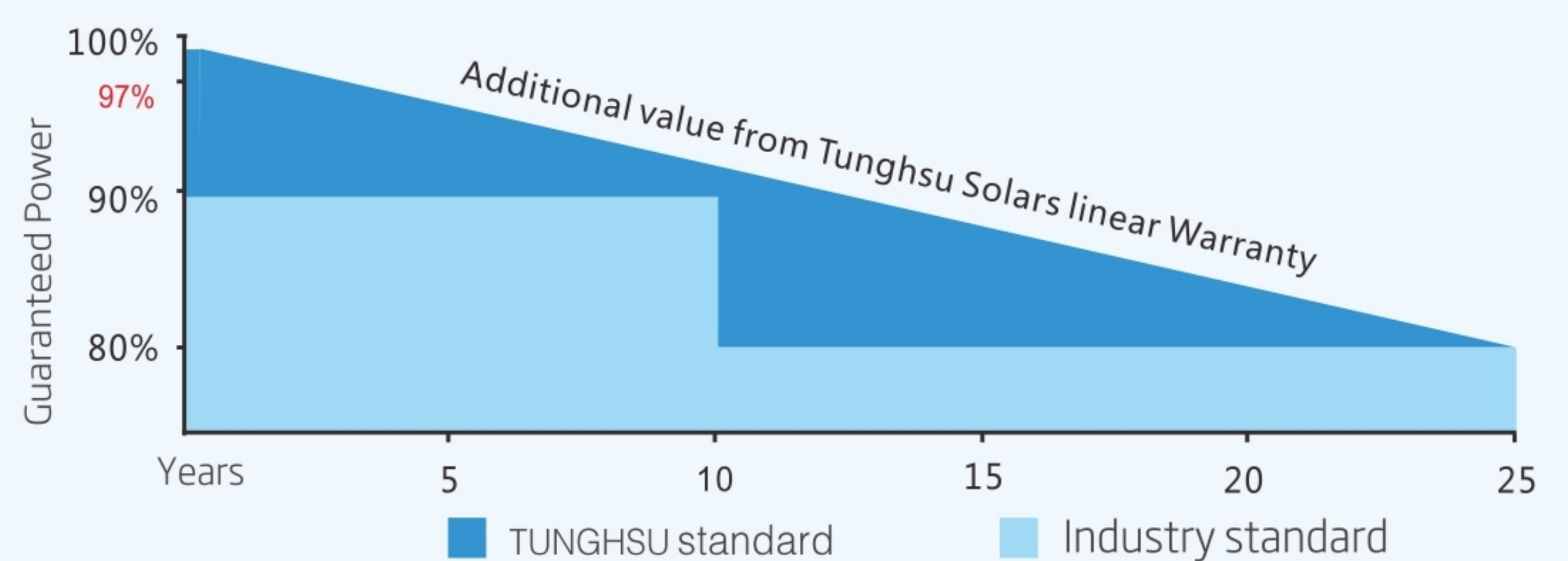


Certified to withstand the most challenging environmental conditions

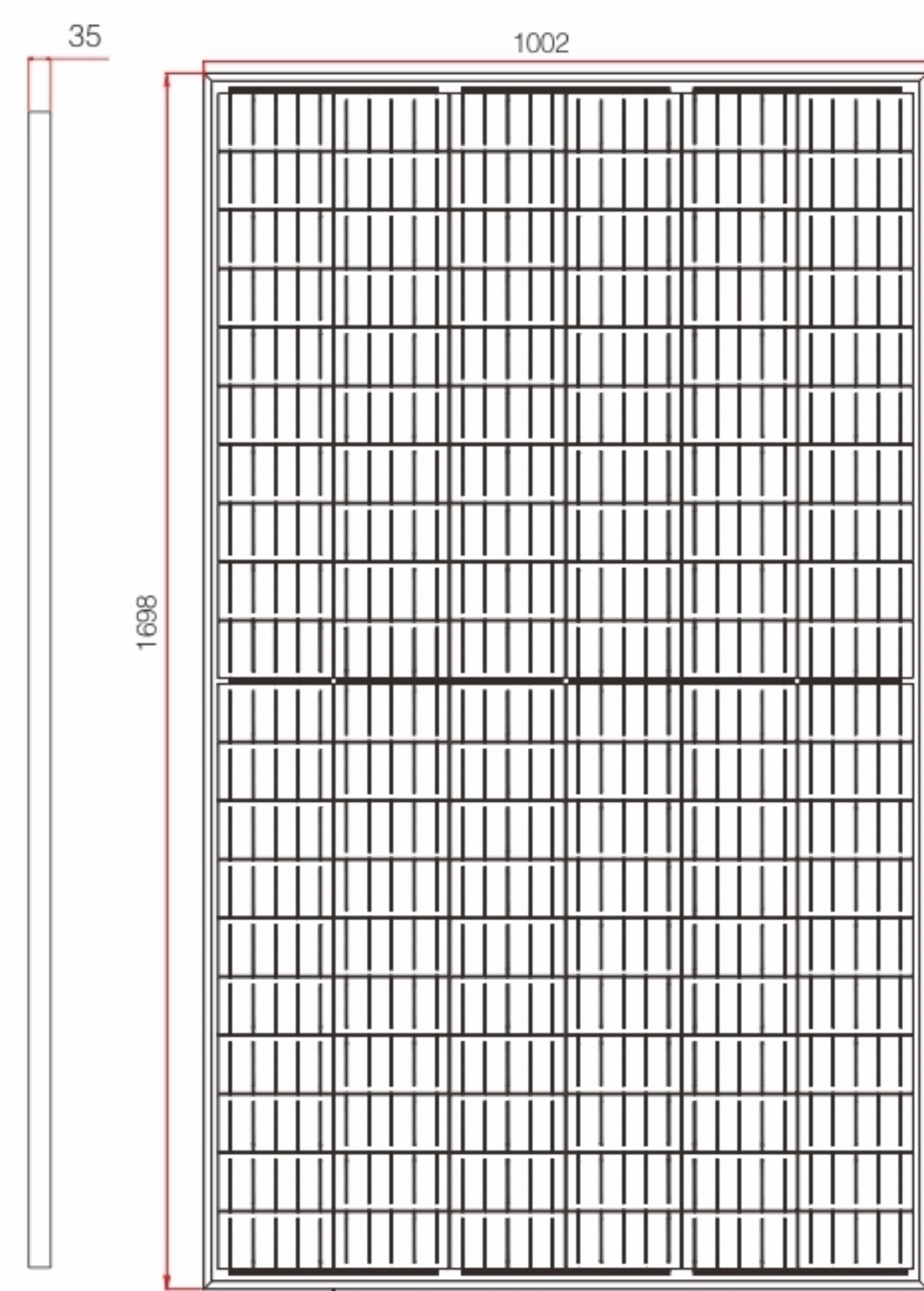
2400 Pa wind load
5400 Pa snow load

Industry-leading linear warranty

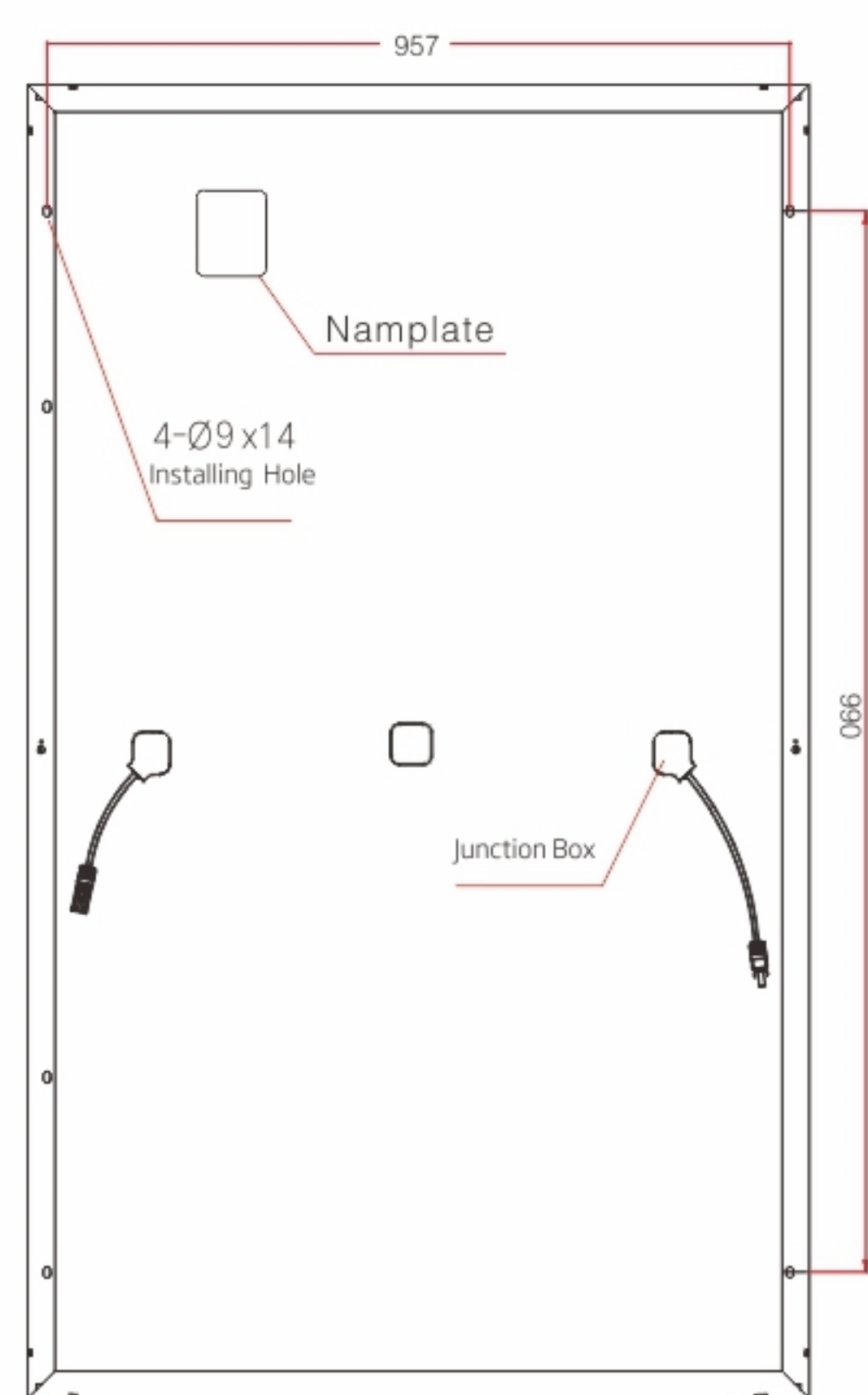
*15 Year Product Warranty *25Year Linear Power Warranty



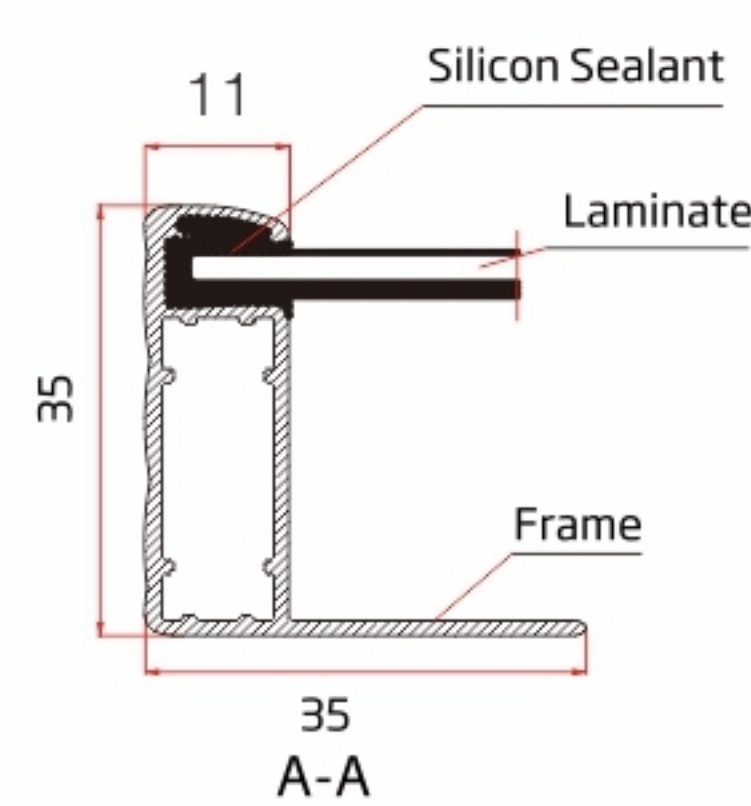
DIMENSIONS OF PV MODULE(mm)



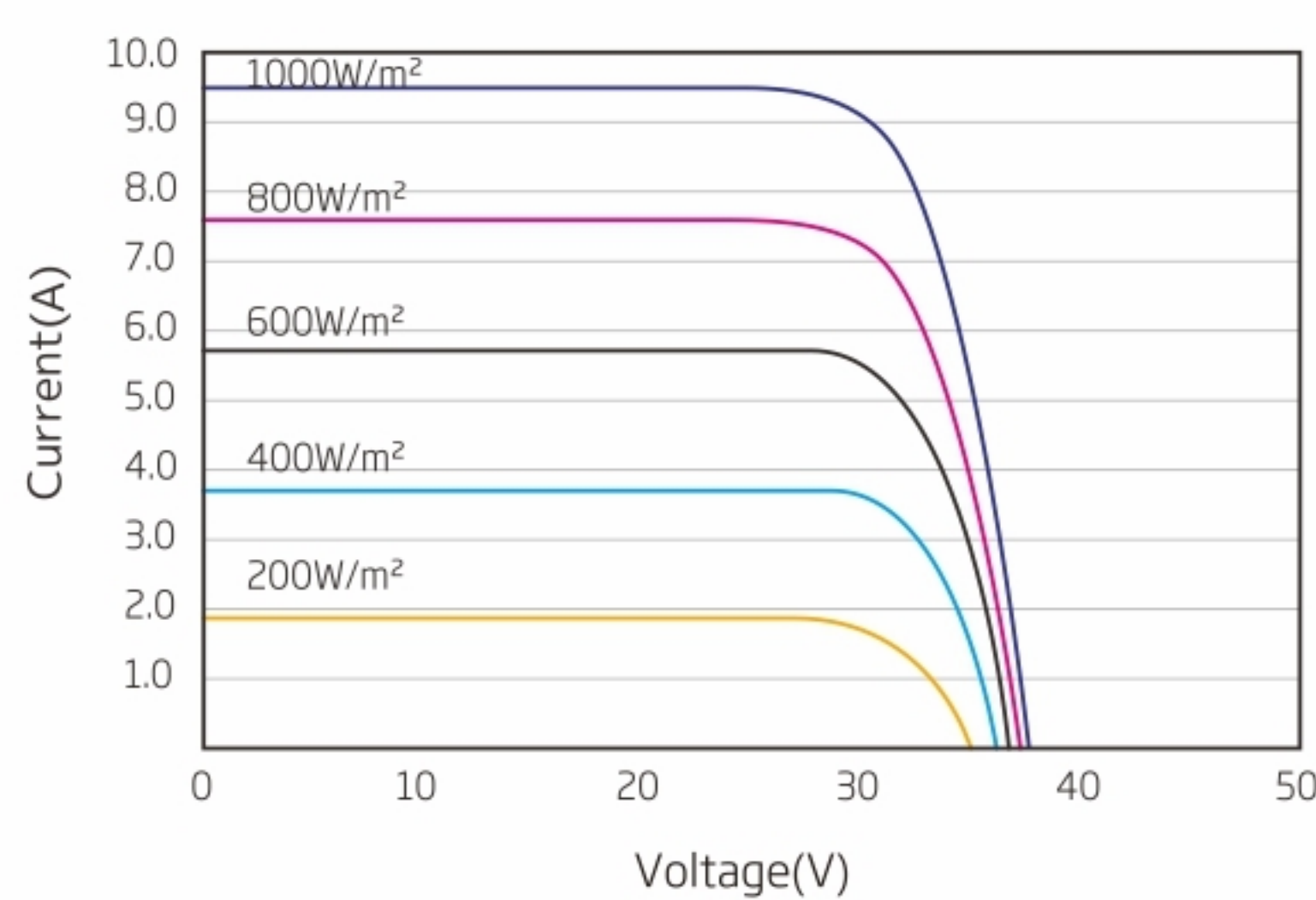
Front View



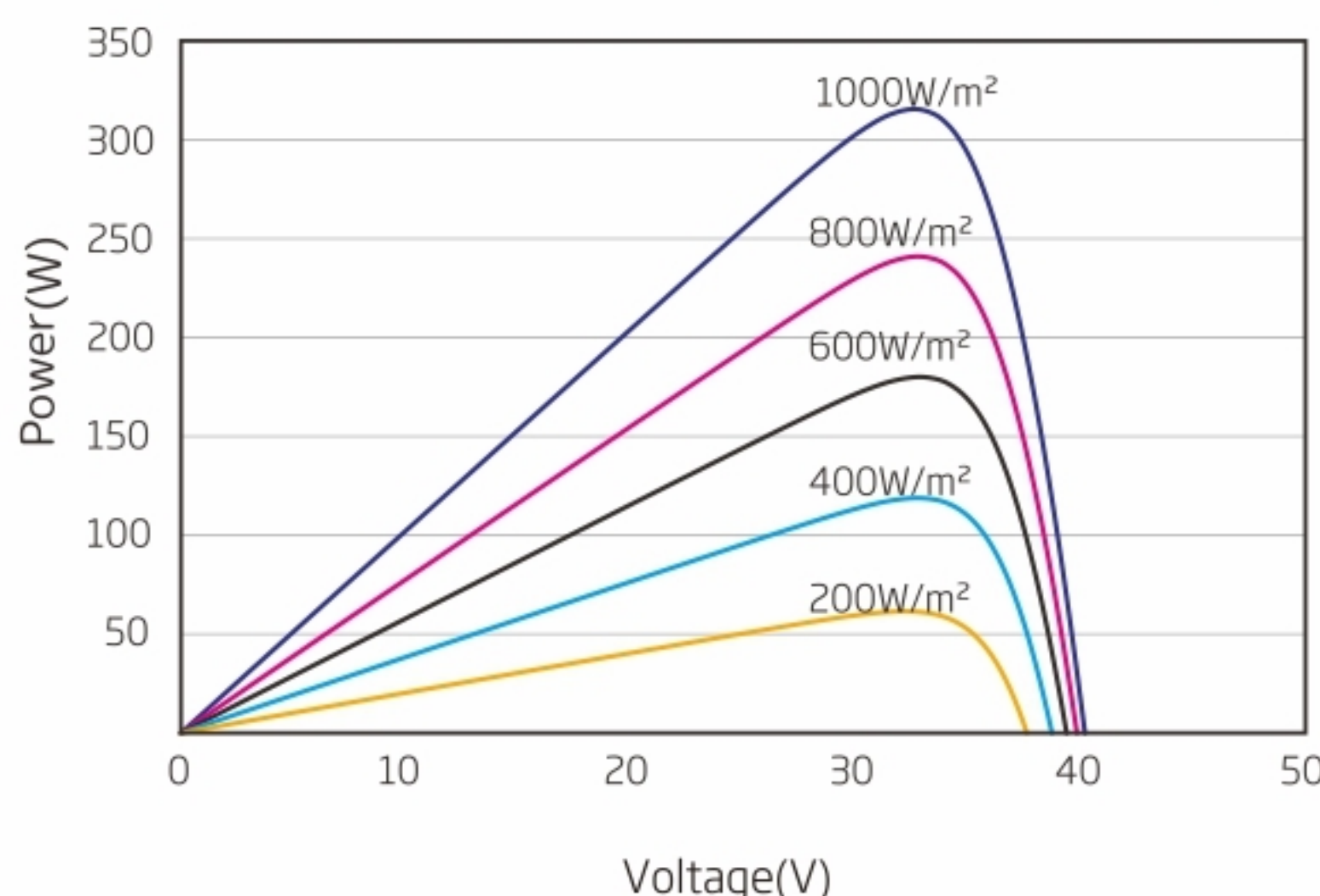
Back View



I-V CURVES OF PV MODULE (330W)



P-V CURVES OF PV MODULE (330W)



ELECTRICAL DATA (STC)

| | | | | | | | | | |
|---------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Peak Power Watts- P_{MAX} (Wp) | 320 | 325 | 330 | 335 | 340 | 345 | 350 | 355 | 360 |
| Power Output Tolerance- P_{MAX} (W) | 0 ~ +5 | | | | | | | | |
| Maximum Power Voltage- V_{MPP} (V) | 33.4 | 33.6 | 33.8 | 34.0 | 34.2 | 34.4 | 34.6 | 34.8 | 35.0 |
| Maximum Power Current- I_{MPP} (A) | 9.59 | 9.68 | 9.77 | 9.87 | 9.96 | 10.04 | 10.13 | 10.23 | 10.32 |
| Open Circuit Voltage- V_{OC} (V) | 40.9 | 41.1 | 41.3 | 41.5 | 41.7 | 41.9 | 42.1 | 42.3 | 42.5 |
| Short Circuit Current- I_{SC} (A) | 10.08 | 10.20 | 10.31 | 10.36 | 10.55 | 10.64 | 10.75 | 10.86 | 10.97 |
| Module Efficiency η_m (%) | 19.0 | 19.3 | 19.6 | 19.9 | 20.2 | 20.4 | 20.7 | 21.0 | 21.3 |

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

*Measuring tolerance: ±3%.

ELECTRICAL DATA (NOCT)

| | | | | | | | | | |
|--------------------------------------|------|------|------|------|------|------|------|------|------|
| Maximum Power- P_{MAX} (Wp) | 238 | 242 | 246 | 250 | 253 | 257 | 261 | 265 | 269 |
| Maximum Power Voltage- V_{MPP} (V) | 31.4 | 31.6 | 31.8 | 32.0 | 32.2 | 32.4 | 32.6 | 32.8 | 33.0 |
| Maximum Power Current- I_{MPP} (A) | 7.58 | 7.66 | 7.74 | 7.82 | 7.86 | 7.93 | 8.01 | 8.08 | 8.15 |
| Open Circuit Voltage- V_{OC} (V) | 37.8 | 38.0 | 38.2 | 38.4 | 38.6 | 38.8 | 39.0 | 39.2 | 39.4 |
| Short Circuit Current- I_{SC} (A) | 8.44 | 8.54 | 8.65 | 8.74 | 8.86 | 8.96 | 9.07 | 9.16 | 9.27 |

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

MECHANICAL DATA

| | |
|----------------------|--|
| Solar Cells | Monocrystalline(158.75 × 158.75mm) |
| Cell Orientation | 120 cells (6 × 10) |
| Module Dimensions | 1698 × 1002 × 35 mm(66.85 × 39.45 × 1.38 inches) |
| Weight | 19.0kg (41.9lb) |
| Glass | 3.2mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass |
| Encapsulant Material | EVA |
| Backsheet | White |
| Frame | 35 mm (1.38 inches) Anodized Aluminium Alloy |
| J-Box | IP 68 rated |
| Cables | Photovoltaic Technology Cable 4.0mm (0.006 inches), Portrait: N 140mm/P 285mm(5.51/11.22inches) Landscape: N 1200 mm /P 1200 mm (47.24/47.24 inches) |
| Connector | MC4、QC4 |

| | |
|---|--------------|
| NOCT (Nominal Operating Cell Temperature) | 45°C (± 2°C) |
| Temperature Coefficient of P_{MAX} | - 0.36%/°C |
| Temperature Coefficient of V_{OC} | - 0.28%/°C |
| Temperature Coefficient of I_{SC} | 0.05%/°C |

| | |
|-------------------------|----------------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1000V 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 |
| 25 year Linear Power Warranty |

PACKAGING CONFIGURATION

| |
|---------------------------------------|
| Modules per box: 30 pieces |
| Modules per 40' container: 780 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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