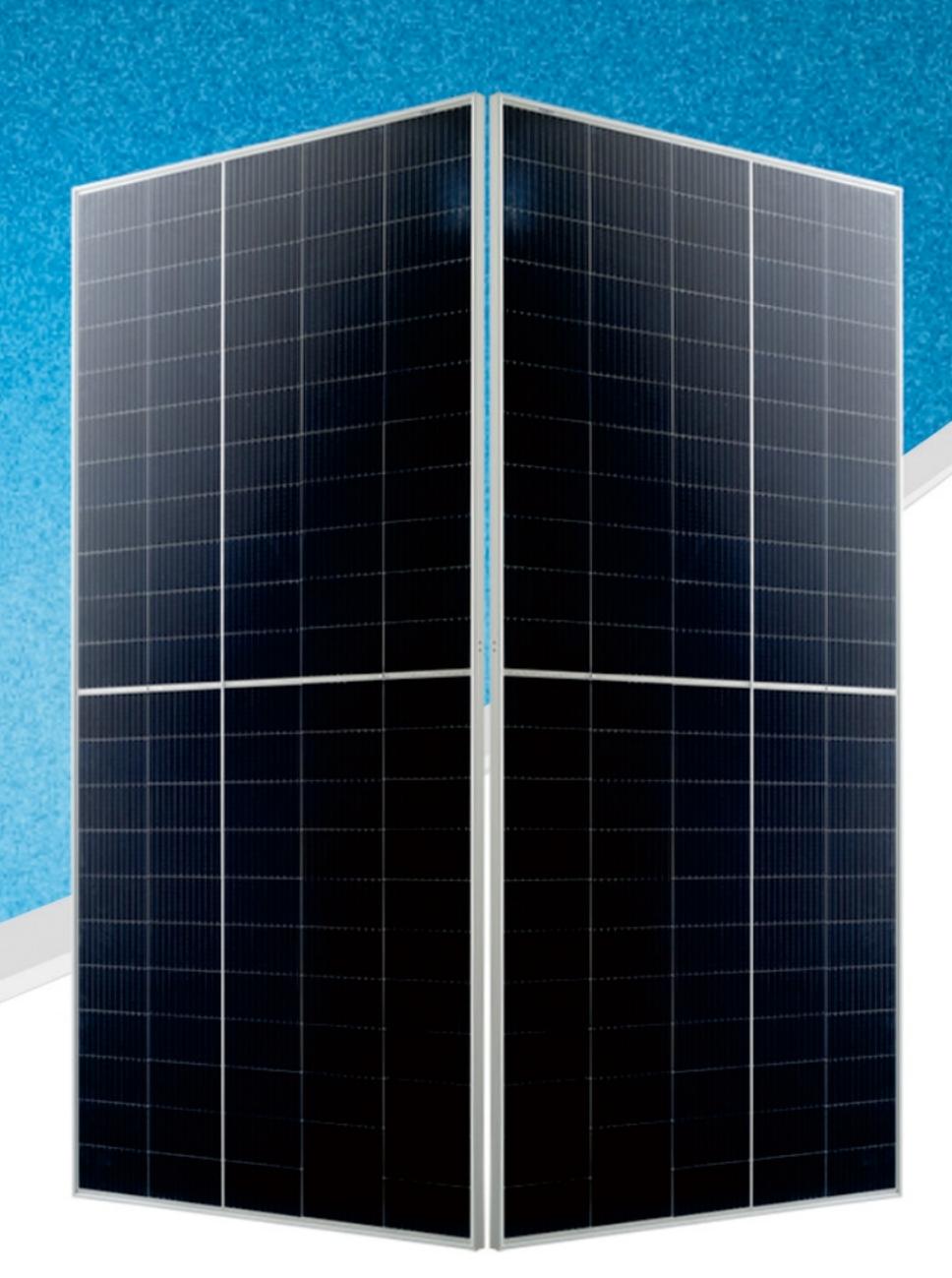


Mono solar modules

110 cell double-glass
multi-busbar half-cut modules



530-550W

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:Enviromental Management System

ISO 45001:Occupation Health and Safety Management System GB/T 23001–2017: Management system with Integration of Information Technology and Industrialization

















Non-destructive cutting

Higher battery bending strength and module mechanical performance Improve anti-PID performance through battery process optimization and material control



Higher customer value

Effectively reduce system BOS cost, achieve lower LOCE, and increase project profitability



Higher power generation performance

Lower temperature coefficient (-0.34%) and lower working temperature bring more power generation

Double-sided power generation, according to different installation environments, the power generation on the back can be increased by up to 25% Half-cell technology brings stronger anti-shadow occlusion ability



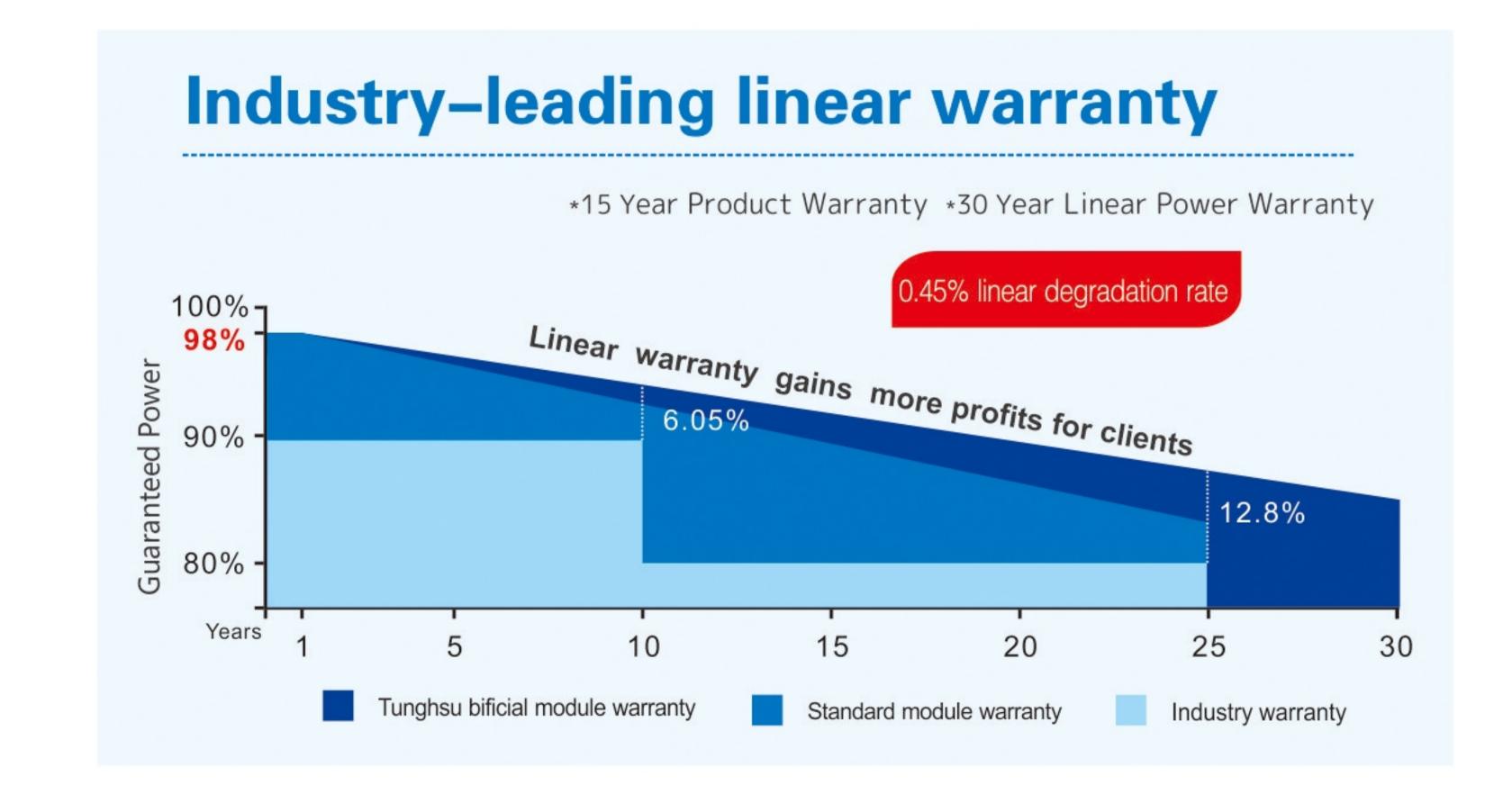
Higher power output

MBB technology adopted, reaching 550Wp highest output, efficiency 21.0% Higher module power and 1500V system voltage 210mm wafer, and Half cut technology adopted

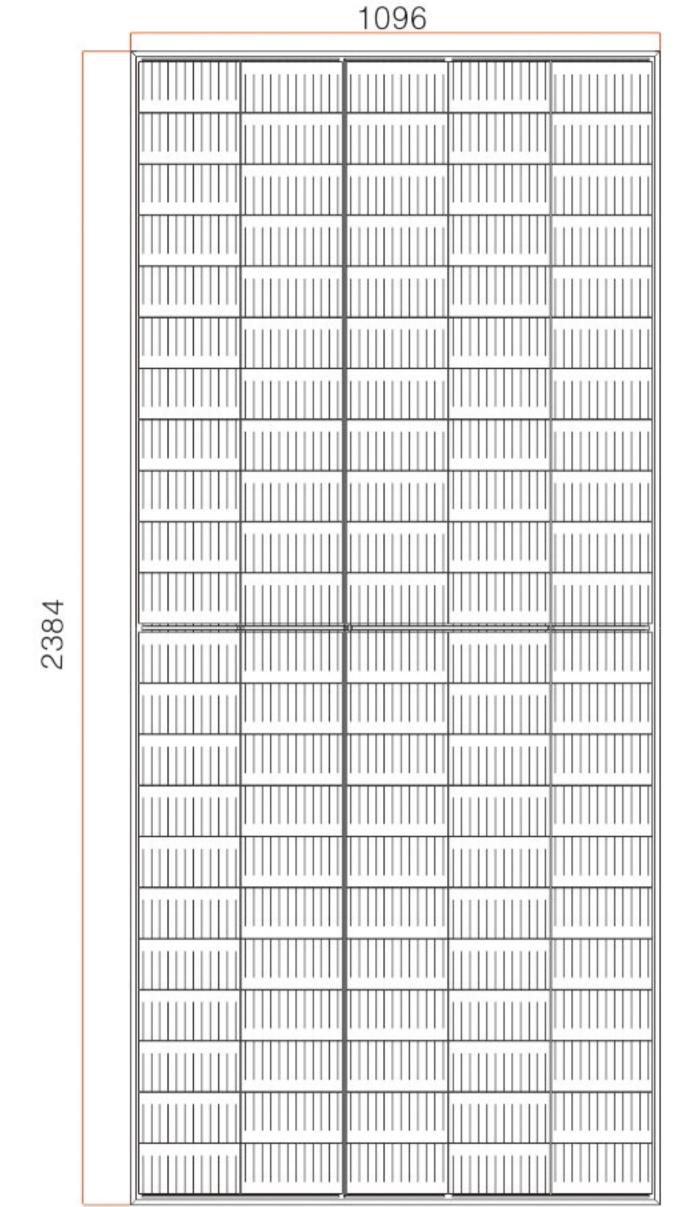


Certified to withstand the most challenging environmental conditions

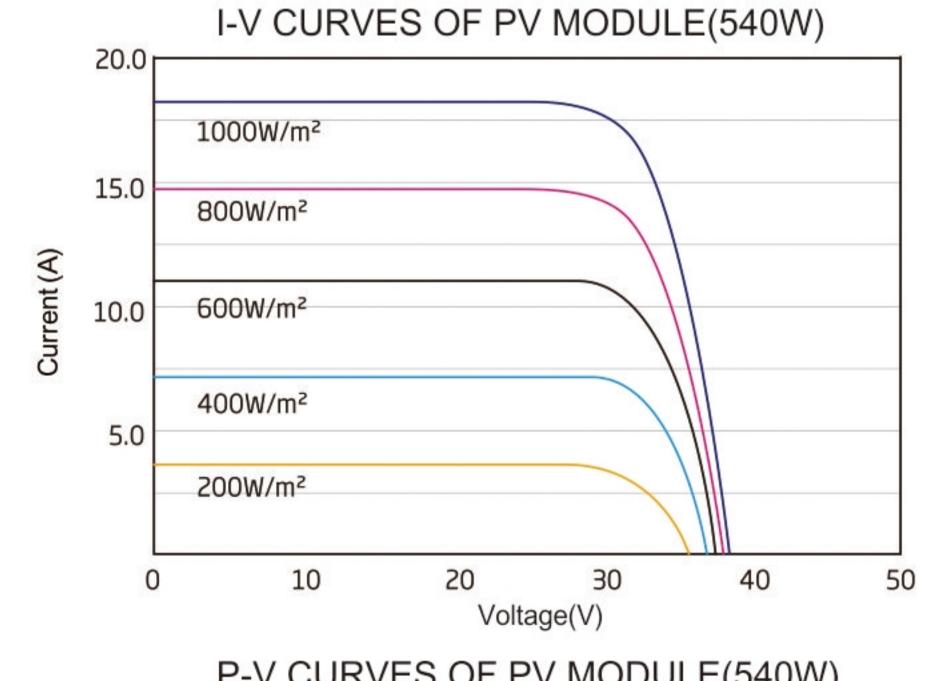
2400 Pa wind load 5400 Pa snow load



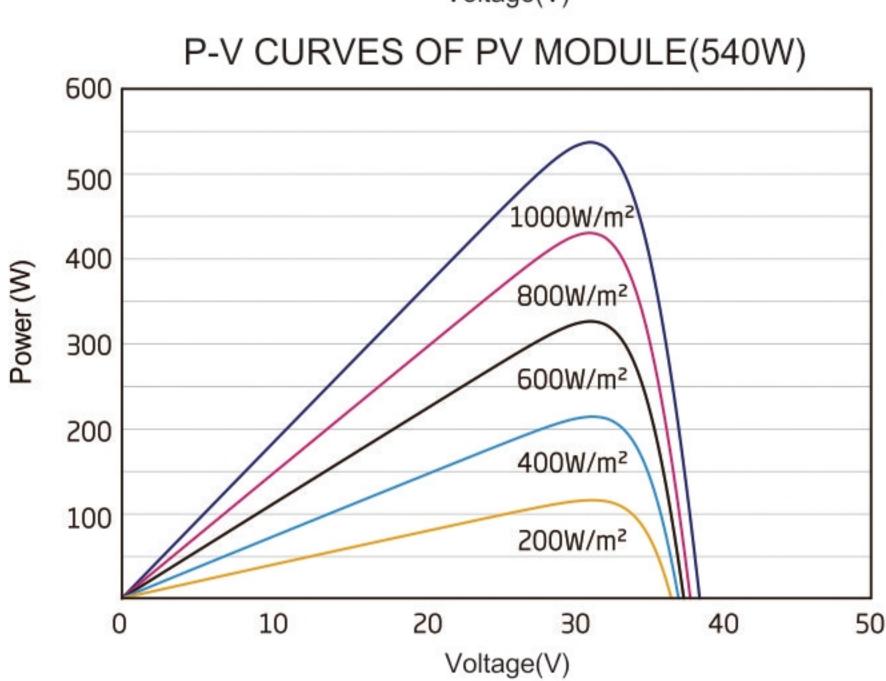
DIMENSIONS OF PV MODULE(mm)



Front View 1059 4-Φ9×14 Installing Hole 4-Φ7×10 Installing Hole 6-Φ4.3 Grounding Hole



Back View



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	530	535	540	545	550
Power Output Tolerance-PMAX (W)		0~	+5		
Maximum Power Voltage-VMPP (V)	31.0	31.2	31.4	31.6	31.8
Maximum Power Current-Impp (A)	17.11	17.16	17.21	17.24	17.29
Open Circuit Voltage-Voc (V)	37.3	37.5	37.7	37.9	38.1
Short Circuit Current-Isc (A)	18.19	18.24	18.30	18.35	18.39
Module Efficiency η ^m (%)	20.3	20.5	20.7	20.9	21.0

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

ELECTRICAL PARAMETERS AND DIFFERENT POWER GAIN BACK (Take 10% irradiation ratio as an example)

Maximum Power-PMAX (Wp)	567	573	578	583	589
Maximum Power Voltage-VMPP (V)	31.0	31.2	31.4	31.6	31.8
Maximum Power Current-Impp (A)	18.31	18.36	18.41	18.45	18.50
Open Circuit Voltage-Voc (V)	37.3	37.5	37.7	37.9	38.1
Short Circuit Current-Isc (A)	19.46	19.52	19.58	19.63	19.68

Back gain: Under standard test conditions, the additional gain from the back and the front power depends on the installation and ground albedo parameters.

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	401	405	409	413	416
Maximum Power Voltage-VMPP (V)	28.8	29.0	29.2	29.4	29.5
Maximum Power Current-Impp (A)	13.93	13.97	14.02	14.08	14.10
Open Circuit Voltage-Voc (V)	35.1	35.3	35.5	35.7	35.9
Short Circuit Current-Isc (A)	14.66	14.70	14.75	14.79	14.82

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

机械参数

12-Draining Hole

Solar Cells	Monocrystalline		
Cell Orientation	110 cell (5x22)		
Module Dimensions	2384x1096x35mm(93.86x 43.15x 1.38 inches)		
Weight	32.5kg(71.65lb)		
Front Glass	2.0mm (0.08inches), High Transmission, Tempered Coated Glass		
Encapsulant Material	POE/EVA		
Rear glass	2.0mm semi-tempered glass (white grid)		
Frame	30mm (1.18 inches) Anodized Aluminium Alloy		
J-Box	IP 68 rated		
Cables	4.0mm², 350mm photovoltaic special cable, or customized		
Connector	MC4、QC4		

TEMPERATURE RATING

43°C (±2°C)
- 0.34%/℃
− 0.25%/°C
0.04%/°C

WARRANTY

15 year Product Workmanship Warranty30 year Linear Power Warranty

LIMIT PARAMETERS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	35A

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

PACKAGING CONFIGURATION

Modules per box: 31 pieces

Modules per 40' container:620 pieces