

**TW\*\*\*MBAP-144-D MONOCRYSTALLINE MODULE**

**Product Features:**



Ultra low performance degradation



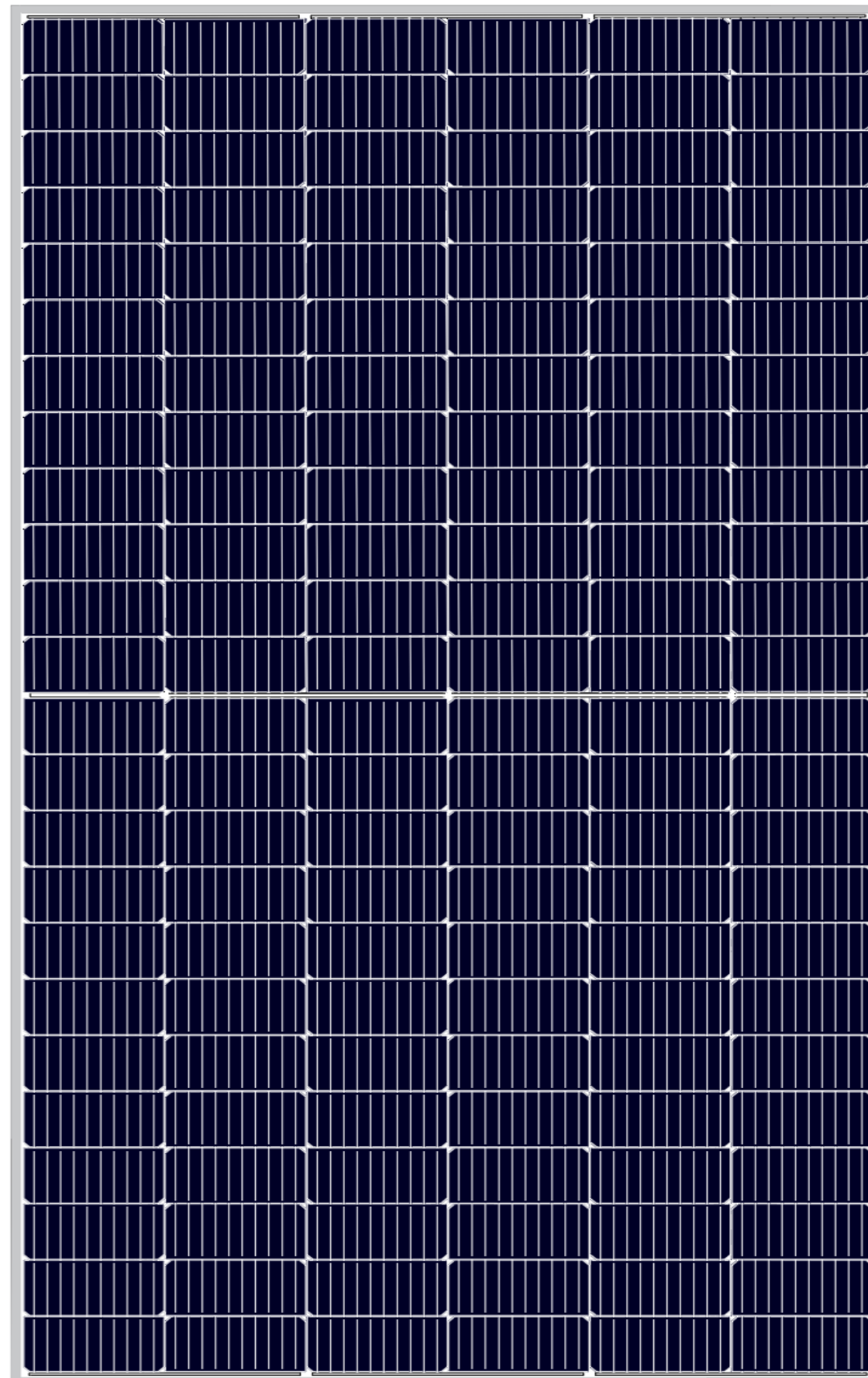
Maximum power up to 555W+



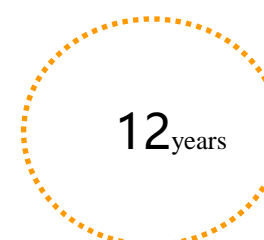
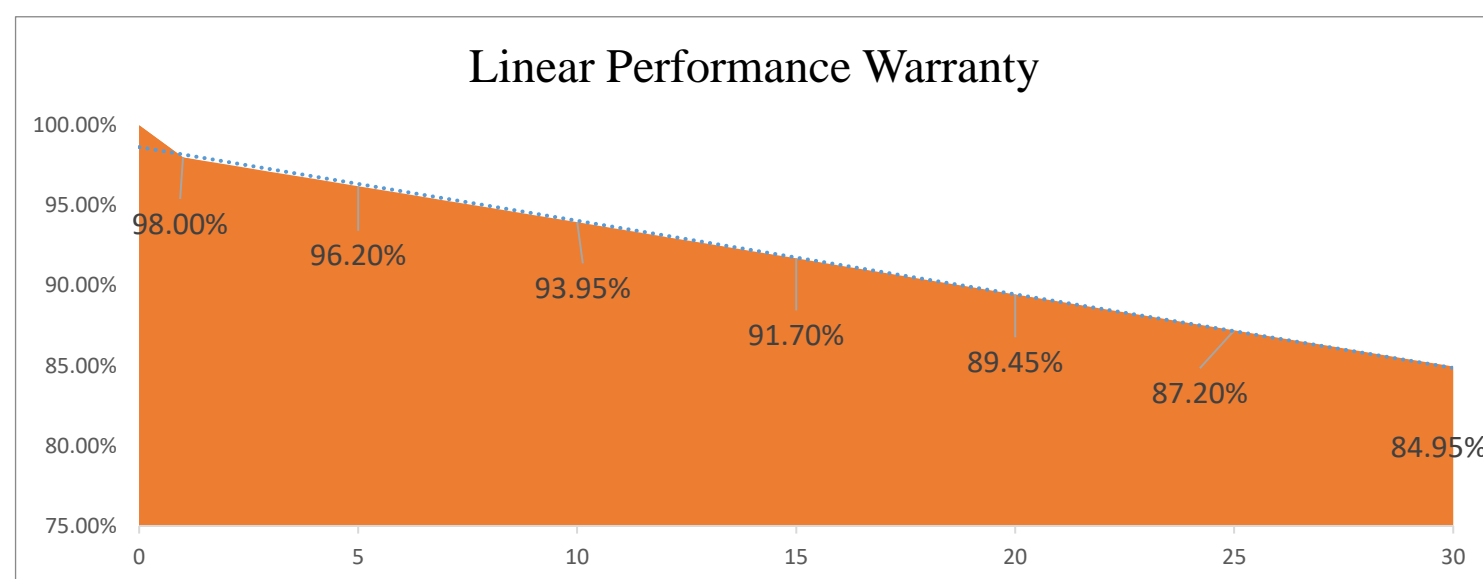
High module quality ensure long-term reliability



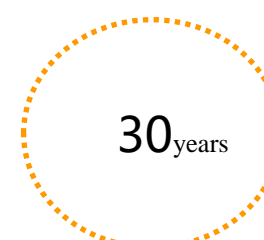
Excellent outdoor power generation performance



**Extra Linear Power Output Warranty**



12 years Materials and Processing Warranty



30 years Extra Linear Power Output Warranty

**System Certifications:**

- ISO9001: Quality Management System
- ISO14001: Environmental Management System
- ISO45001: Occupational Health and Safety Management System

**Product Certifications**



### Electrical Data (STC) Frontside

	TW545MB	TW550MB	TW555MB
Module Type:	AP-144-D	AP-144-D	AP-144-D
Maximum Power- $P_{MAX}$ (Wp):	545	550	555
Open Circuit Voltage- $V_{OC}$ (V)	50.40	50.63	50.87
Short Circuit Current- $I_{SC}$ (A)	13.77	13.83	13.89
Maximum Power Voltage- $V_{MPP}$ (V)	41.70	41.93	42.18
Maximum Power Current- $I_{MPP}$ (A)	13.07	13.12	13.16
Module Efficiency $\eta$ (%)	21.1	21.3	21.5

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass1.5, Measuring tolerance:  $\pm 3\%$

### TEMPERATURE RATINGS

Temperature Coefficient of $P_{MAX}$	-0.35%/°C
Temperature Coefficient of $V_{OC}$	-0.28%/°C
Temperature Coefficient of $I_{SC}$	+0.05%/°C

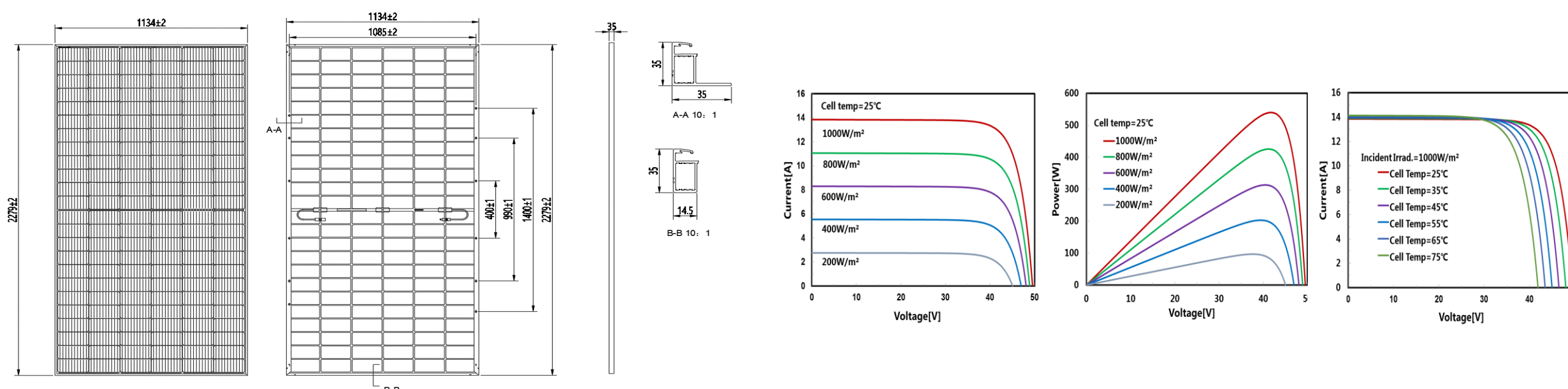
### MAXIMUM RATINGS

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A
Power Selection	0~+5W
Bifaciality	70 $\pm$ 5%
Fire Safety Class	Class C

### Mechanical Data

Solar Cells	Monocrystalline
No. of cells	144[6 $\times$ 24]
Module Dimensions	2278 $\times$ 1134 $\times$ 35mm
Weight	32.7KG
Front Side Glass	2.0mm High Transmission, AR Coated Heat Strengthened Glass
Back Side Glass	2.0mm High Transmission, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
J-Box	IP 68 rated, Three diodes
Cables	4.0 mm <sup>2</sup> , Portrait: 280/280mm SIKE6, ZHEJIANG FOR SOL ENERGY Co., Ltd. FC4-4, ZHEJIANG FOR SOL ENERGY Co., Ltd. PV-KST4-EVO 2/xy_UR;PV-KBT4-EVO 2/xy_UR, Stäubli Electrical Connectors AG PV-KST4-EVO 2A/xy;PV-KBT4-EVO 2A/xy, Stäubli Electrical Connectors AG C1, Jiangsu Holysun Electronics Technology Co., Ltd. C1, JINZHOU YANGGUANG ENERGY CO., LTD C2 and LJ-01, Jiangsu Holysun Electronics Technology Co., Ltd. C2xyz (x=blank; y=blank; z=blank);LJ-01x (x=blank), Jiangsu Holysun Electronics Technology Co., Ltd.
Connector	LSC-R1, LEONI Cable (China) Co., Ltd. UTXCFabcd;UTXCMabcd, Amphenol Technology (Shenzhen) Co., Ltd. PV-JY-0901-3, Yangzhou Langri New Energy technology Co., Ltd. PV-JY-0901-4, Yangzhou Langri New Energy technology Co., Ltd. PV-JY-0901-5, Yangzhou Langri New Energy technology Co., Ltd. Z4S-abcde, Zerun Co., LTD PV-XT101.1, Suzhou Xtong Photovoltaic Technologies Co., Ltd. TS4; TS4-36; TS4-cd (c=1;d=1 or 2), Trina SolarCo., Ltd.
Static Load(Front/Rear)	5400Pa/2400Pa
Modules per box	36 pcs per pallet
Packaging	155 pcs per 20'HC,620 pcs per 40'HC

### Dimensions Of PV Module(mm)



**CAUTION:** READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Tongwei Solar Energy (Hefei) Co., LTD

Technical specification of the TW545~555MBAP-144-D

manufactured in China