

# AXI-144TSD

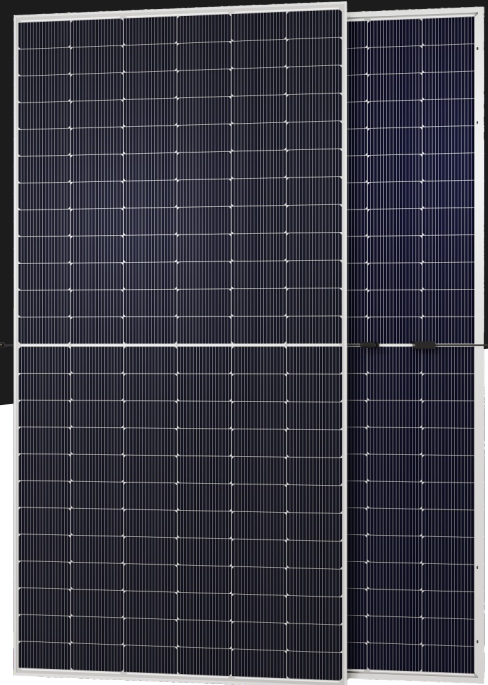
Topcon Technology

## POWER RANGE

550W~580W

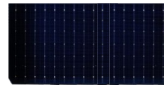
## CELL SIZE

182\*91mm



### JUNCTION BOX

Waterproof protection grade:IP68  
Safety Level: Class II  
Maximum System Voltage: 1500V  
outstanding waterproof level  
Effectively resist harsh environments



16BB



### Frame

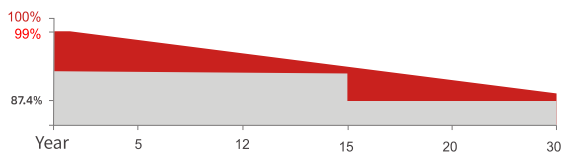
Strong mechanical load  
resistance up to 5400Pa  
Anodic oxidation layer resistant to  
chemical corrosion available  
in silver and black

## QUALIFICATIONS AND CERTIFICATES



·IEC61215 / · IEC61730

## WARRANTY



15 YEARS

Guarantee on product material and workmanship

30 YEARS

Linear Power output warranty



### SMBB Technology

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



### PID Resistance

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



### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



### Enhanced Mechanical Load

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

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Introducing AXI solar, a solar industry pioneer known for groundbreaking innovation. Our panels redefine reliability, delivering optimal efficiency. With a focus on cutting-edge technology, we stand at the forefront of the solar revolution, offering a reliable, efficient, and sustainable energy solution.

At AXI solar, sustainability is not just a goal; it's our ethos. From responsible sourcing to eco-friendly manufacturing, our commitment to minimizing environmental impact is unwavering. Choose AXI solar for solar panels that not only perform at the highest level but also contribute to a greener future.

Join us on the journey to a sustainable tomorrow with AXI solar. Our solar panels embody a perfect blend of efficiency, innovation, and eco-conscious design. As a leader in the solar industry, we're dedicated to providing you with a reliable, cutting-edge, and environmentally responsible energy solution.

## ELECTRICAL DATA (STC)

Model Type	AXI550-36V-TSD	AXI555-36V-TSD	AXI560-36V-TSD	AXI565-36V-TSD	AXI570-36V-TSD	AXI575-36V-TSD	AXI580-36V-TSD
Peak Power(Pmax)	550.00	555.00	560.00	565.00	570.00	575.00	580.00
Maximum Power Voltage(Vmp)	41.50	41.64	41.77	41.92	42.07	42.22	42.37
Maximum Power Current(Imp)	13.26	13.33	13.41	13.48	13.55	13.62	13.69
Open Circuit Voltage(Voc)	50.21±3%	50.34±3%	50.47±3%	50.60±3%	50.74±3%	50.88±3%	51.02±3%
Short Circuit Current(Isc)	14.00±3%	14.07±3%	14.15±3%	14.23±3%	14.31±3%	14.39±3%	14.47±3%
Module Efficiency( % )	21.29	21.48	21.68	21.87	22.07	22.26	22.45

\*STC: irradiance 1000W/m<sup>2</sup>, AM1.5, and cell temperature of 25°C

## ELECTRICAL DATA (NMOT)

Model Type	AXI550-36V-TSD	AXI555-36V-TSD	AXI560-36V-TSD	AXI565-36V-TSD	AXI570-36V-TSD	AXI575-36V-TSD	AXI580-36V-TSD
Peak Power(Pmax)	413.00	417.00	421.00	425.00	429.00	433.00	437.00
Maximum Power Voltage(Vmp)	38.99	39.12	39.25	39.38	39.51	39.64	39.77
Maximum Power Current(Imp)	10.61	10.67	10.73	10.79	10.85	10.91	10.97
Open Circuit Voltage(Voc)	47.70±3%	47.82±3%	47.94±3%	48.06±3%	48.20±3%	48.32±3%	48.46±3%
Short Circuit Current(Isc)	11.30±3%	11.36±3%	11.42±3%	11.49±3%	11.55±3%	11.61±3%	11.68±3%

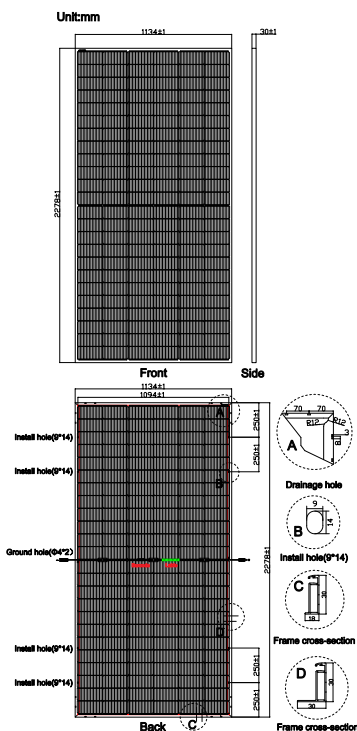
\*NMOT: irradiance 800W/m<sup>2</sup>, AM1.5, ambient temperature 20°C, wind speed 1 m/s

## ELECTRICAL DATA (BNPI)

Model Type	AXI550-36V-TSD	AXI555-36V-TSD	AXI560-36V-TSD	AXI565-36V-TSD	AXI570-36V-TSD	AXI575-36V-TSD	AXI580-36V-TSD
Peak Power(Pmax)	609.00	615.00	620.00	626.00	632.00	637.00	643.00
Maximum Power Voltage(Vmp)	41.50	41.64	41.77	41.92	42.07	42.22	42.37
Maximum Power Current(Imp)	14.69	14.77	14.86	14.94	15.01	15.09	15.18
Open Circuit Voltage(Voc)	50.21±3%	50.34±3%	50.47±3%	50.60±3%	50.74±3%	50.88±3%	51.02±3%
Short Circuit Current(Isc)	15.51±3%	15.59±3%	15.68±3%	15.77±3%	15.86±3%	15.94±3%	16.03±3%

\*BNPI: back irradiance 135W/m<sup>2</sup>, AM1.5, and cell temperature of 25°C

## PV DRAWINGS



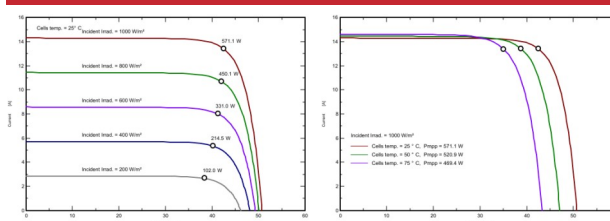
## TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500V
Maximum Series Fuse Rating (A)	30A
Power Tolerance	0~+3W
Pmax Temperature Coefficient (W/°C)	-0.300%/°C
Voc Temperature Coefficient (V/°C)	-0.250%/°C
Isc Temperature Coefficient (A/°C)	+0.046%/°C
NMOT Nominal Module Operating Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C

## MECHANICAL CHARACTERISTICS

Cell Type	182*91 N Type Bifacial Mono
No. of Cells	144 (12*12)
Dimensions	2278*1134*30mm
Weight	32.20kg
Front Glass	2.0mm AR coating tempered glass
Back Glass	2.0mm Glazed Glass
Frame	Anodized Aluminum Alloy
Junction box	IP68 3 diodes
Output cables	4mm <sup>2</sup> cable 35cm (Including MC4 connector)
Max Wind Load/Snow Load	2400Pa/5400Pa

## IV CURVE (570W)



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## PACKING WAY

20FT container	5 Packages/185pcs
40HQ container	20 Packages/740pcs