



TSBHNM-144HVG

**575-595W**

N-type TOPCon Bifacial Dual Glass Solar Module

- Natural zero LID with N-type solar cell
- Maximum 30% more yield with high bifaciality
- Excellent low-light performance & temperature coefficient
- High module quality ensures long-term reliability
- The best choice for C&I and utility projects

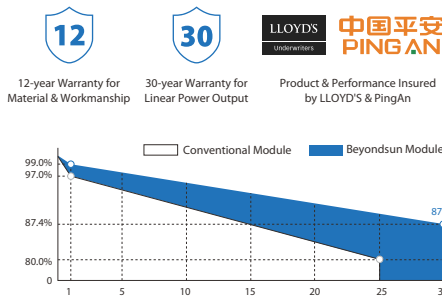


### System & Product Certifications

IEC 61215 / IEC 61730  
 ISO 9001: Quality Management System  
 ISO 14001: Environment Management System  
 ISO 45001: Occupational Health and Safety  
 amfori BSCI Corporate Social Responsibility



### Product Warranty & Insurance



### The Ideal Solution for

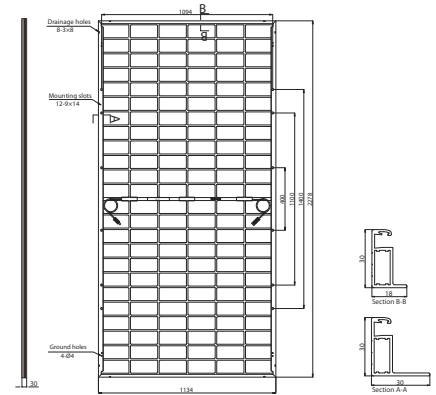
- Residential rooftop projects
- Commercial / industrial rooftop projects
- Ground-mounted projects

# POWER TSBHNM-144HVG 575-595W

## Mechanical Parameters

Cell Type	N-type Mono
Cell Arrangement	144pcs (2x(6x12))
Dimension (LxWxH)	2278x1134x30mm
Weight	31.5kg
Front Cover	2.0mm AR Coating Tempered Glass
Back Cover	2.0mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 bypass diodes
Cable	4mm <sup>2</sup> , +400mm, -300mm, or customizable
Connector	PV Connector

## Technical Drawings (mm)



## Electrical Parameters

STC: 1000W/m<sup>2</sup>, 25 °C, AM 1.5 NMOT: 800W/m<sup>2</sup>, AM 1.5, 20°C, 1m/s Pmax tolerance 0~+3%

Module Type	TSBHNM575-144HVG		TSBHNM580-144HVG		TSBHNM585-144HVG		TSBHNM590-144HVG		TSBHNM595-144HVG	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Max. Power Output Pmax (W)	575	432	580	436	585	440	590	444	595	447
Max. Power Voltage Vmp (V)	42.69	39.67	42.84	39.82	42.99	40.04	43.13	40.19	43.28	40.28
Max. Power Current Imp (A)	13.47	10.89	13.54	10.95	13.61	10.99	13.68	11.05	13.75	11.10
Open Circuit Voltage Voc (V)	50.51	47.57	50.67	47.72	50.82	47.87	50.97	48.02	51.12	48.17
Short Circuit Current Isc (A)	14.35	11.59	14.42	11.65	14.49	11.70	14.56	11.76	14.63	11.81
Module Efficiency (%)	22.26%		22.45%		22.65%		22.84%		23.03%	

## Rear Side Power Gain

Refer. Bifaciality Factor: 80±10%

5%	Maximum Power (Pmax)	604	609	614	620	625
	Module Efficiency STC (%)	23.37%	23.57%	23.78%	23.98%	24.18%
15%	Maximum Power (Pmax)	661	667	673	679	684
	Module Efficiency STC (%)	25.60%	25.82%	26.04%	26.27%	26.49%
25%	Maximum Power (Pmax)	719	725	731	738	744
	Module Efficiency STC (%)	27.82 %	28.07%	28.31%	28.55%	28.79%

## Operating Parameters

Maximum System Voltage(V)	1500(DC)
Operating Temperature(°C)	-40°C ~ +85°C
Max. Wind Load / Snow Load(Pa)	2400/5400
Max. Over Current(A)	30

## Temperature Coefficients

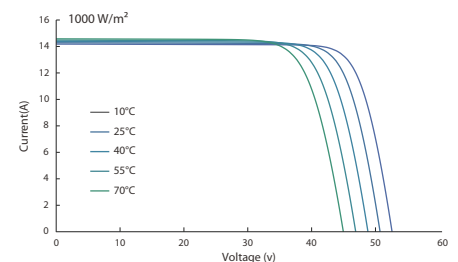
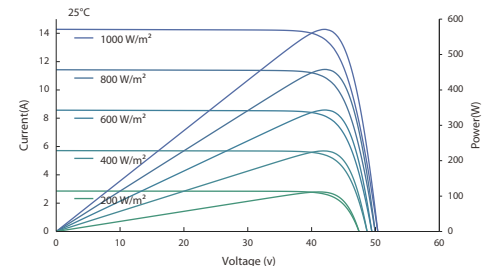
Temperature Coefficients of Pmp	-0.30%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	+0.046 %/°C
NMOT	45°C±2°C

## Package Information

Quantity / Pallet	36 pcs
Container 40'HQ	20pallets, 720pcs

## Partner's Notes

## I-V Curves



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