

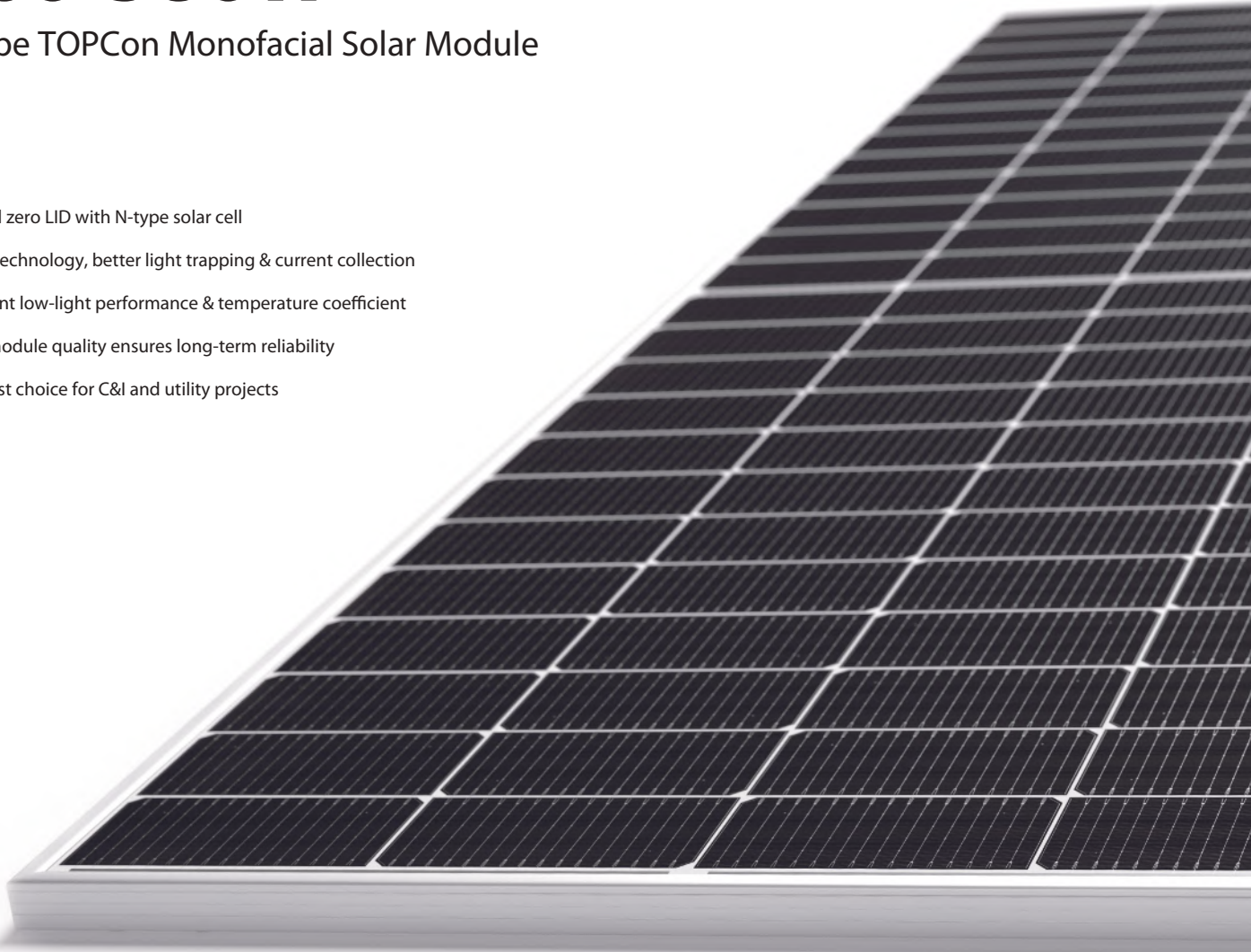


TSHNM-144HV

560-580W

N-type TOPCon Monofacial Solar Module

- Natural zero LID with N-type solar cell
- SMBB technology, better light trapping & current collection
- 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



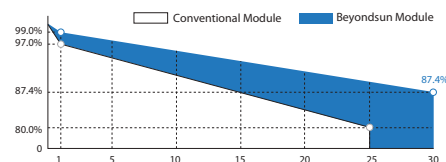
12-year Warranty for Material & Workmanship



30-year Warranty for Linear Power Output



Product & Performance Insured by LLOYDS & PingAn



The Ideal Solution for



Residential rooftop projects



Commercial / industrial rooftop projects



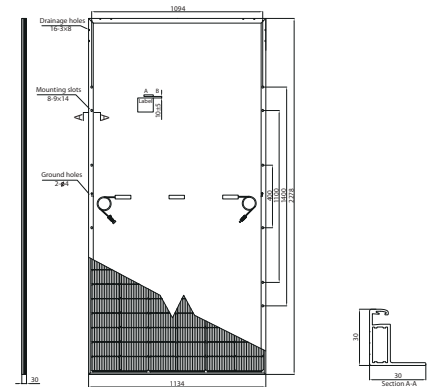
Ground-mounted projects

POWER TSHNM-144HV 560-580W

Mechanical Parameters

Cell Type	N-type Mono 182x91mm
Cell Arrangement	144pcs (2x(6x12))
Dimension (LxWxH)	2278x1134x30mm
Weight	28.6kg
Front Cover	3.2mm Tempered Glass
Back Cover	White Back Sheet
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable	4mm ² , +400mm, -300mm, or customizable
Connector	PV Connector

Technical Drawings (mm)



Electrical Parameters @STC

Module Type	TSHNM560-144HV	TSHNM565-144HV	TSHNM570-144HV	TSHNM575-144HV	TSHNM580-144HV
Max. Power Output Pmax (W)	560	565	570	575	580
Max. Power Voltage Vmp (V)	42.24	42.39	42.54	42.69	42.84
Max. Power Current Imp (A)	13.26	13.33	13.40	13.47	13.54
Open Circuit Voltage Voc (V)	50.06	50.21	50.36	50.51	50.67
Short Circuit Current Isc (A)	14.14	14.21	14.28	14.35	14.42
Module Efficiency (%)	21.68%	21.87%	22.07%	22.26%	22.45%

STC: 1000W/m², 25 °C, AM 1.5 Pmax tolerance 0~+3%

Electrical Parameters @NMOT

Module Type	TSHNM560-144HV	TSHNM565-144HV	TSHNM570-144HV	TSHNM575-144HV	TSHNM580-144HV
Max. Power Output Pmax (W)	421	424	428	432	436
Max. Power Voltage Vmp (V)	39.31	39.37	39.52	39.67	39.82
Max. Power Current Imp (A)	10.71	10.77	10.83	10.89	10.95
Open Circuit Voltage Voc (V)	47.12	47.27	47.42	47.57	47.72
Short Circuit Current Isc (A)	11.41	11.47	11.53	11.59	11.65

NMOT: 800W/m², AM 1.5, 20°C, 1m/s

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)	25

Temperature Coefficients

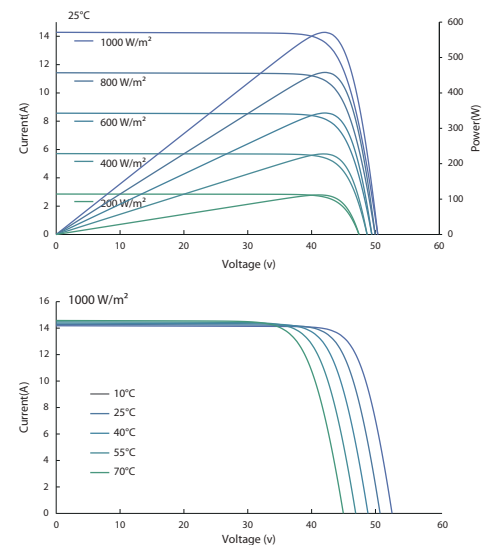
Temperature Coefficients of Pmp	-0.30%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	+0.046 %/°C
NMOT	45°C±2°C

Package Information

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

Patner's Notes

I-V Curves



*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Zhejiang Beyondsun Green Energy Technology Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.