

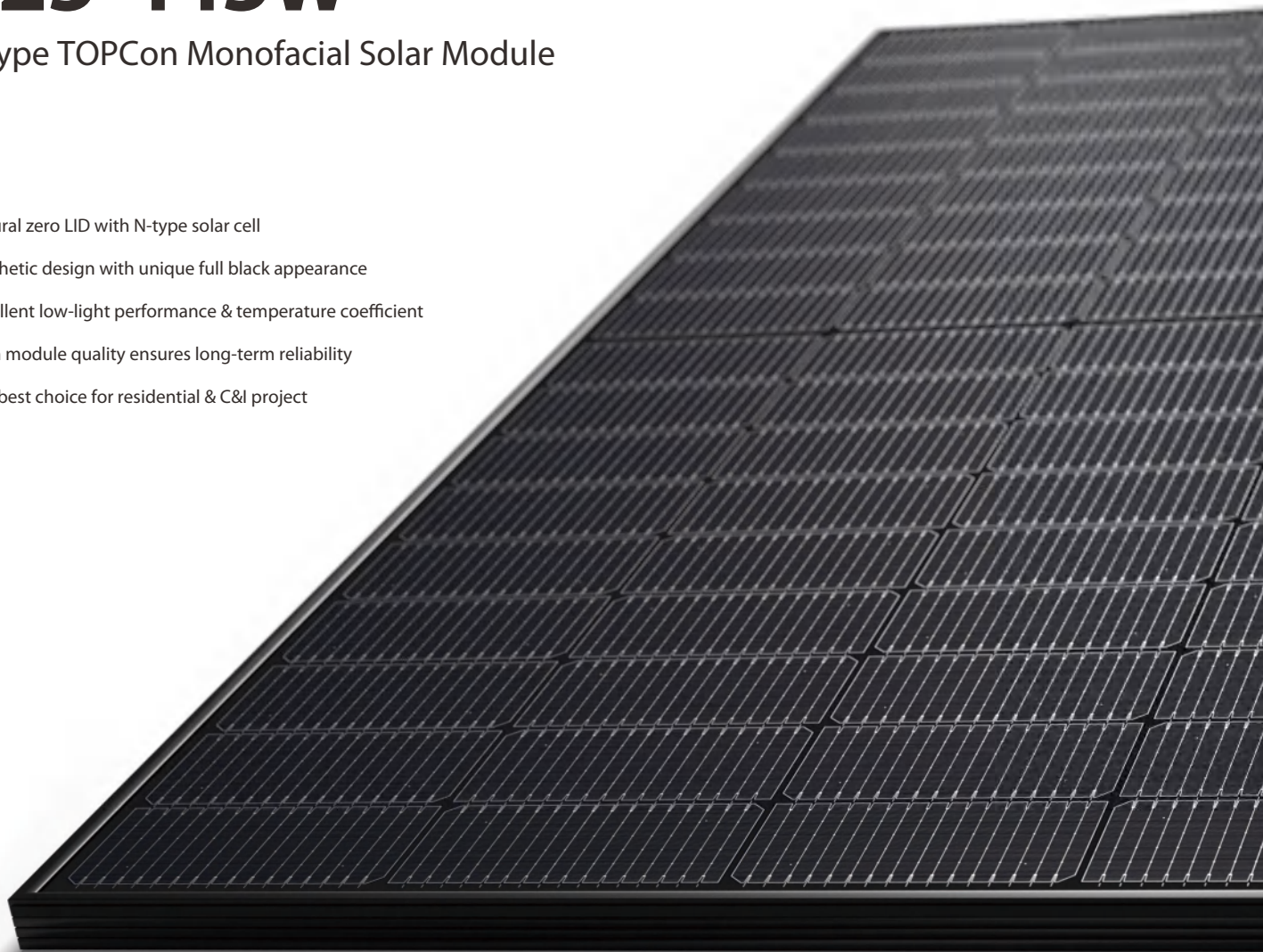


TSHNM-108HV

425-445W

N-type TOPCon Monofacial Solar Module

- Natural zero LID with N-type solar cell
- Aesthetic design with unique full black appearance
- Excellent low-light performance & temperature coefficient
- High module quality ensures long-term reliability
- The best choice for residential & C&I project



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



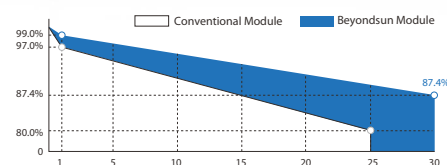
Product Warranty



15-year Warranty for
Material & Workmanship



30-year Warranty for
Linear Power Output



The Ideal Solution for



Residential
rooftop projects



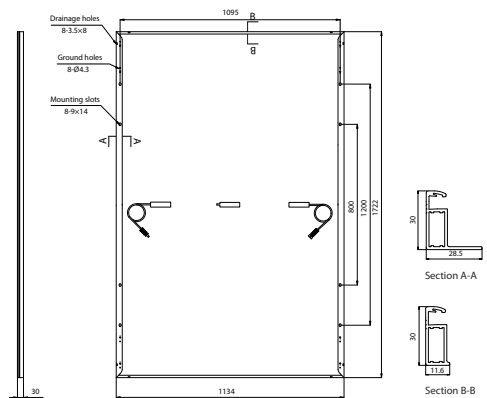
Commercial / industrial
rooftop projects

POWER TSHNM-108HV 425-445W

Mechanical Parameters

Cell Type	N Type Mono
Cell Arrangement	108pcs (2x(6x9))
Dimension (LxWxH)	1722x1134x30mm
Weight	21.0kg
Front Cover	3.2mm AR Coating Tempered Glass
Back Cover	Black Back Sheet
Frame	Black Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Length of Cable	4mm ² , +400mm, -200mm, or customizable
Connector	PV Connector

Technical Drawings (mm)



Electrical Parameters @STC

Module Type	TSHNM425-108HV	TSHNM430-108HV	TSHNM435-108HV	TSHNM440-108HV	TSHNM445-108HV
Max. Power Output Pmax (W)	425	430	435	440	445
Max. Power Voltage Vmp (V)	31.77	31.90	32.04	32.17	32.30
Max. Power Current Imp (A)	13.38	13.48	13.58	13.68	13.78
Open Circuit Voltage Voc (V)	37.57	37.71	37.86	38.01	38.15
Short Circuit Current Isc (A)	14.26	14.36	14.46	14.56	14.66
Module Efficiency (%)	21.76%	22.02%	22.28%	22.53%	22.79%

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

Electrical Parameters @NMOT

Max. Power Output Pmax (W)	320	324	328	332	335
Max. Power Voltage Vmp (V)	29.68	29.81	29.94	30.06	30.18
Max. Power Current Imp (A)	10.79	10.87	10.95	11.03	11.11
Open Circuit Voltage Voc (V)	35.84	35.98	36.12	36.26	36.40
Short Circuit Current Isc (A)	11.50	11.58	11.66	11.74	11.82

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	26pallets, 936pcs

Partner's Notes

I-V Curves

