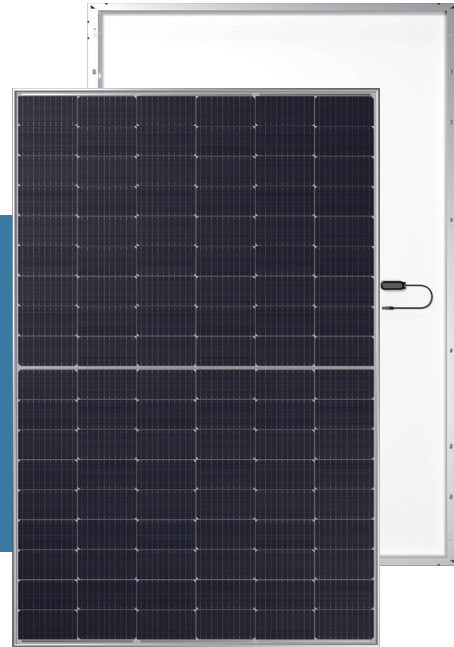


DuDrive Max Series

TSHM-108HV 400-410

Ultra High Efficiency Mono PERC Half-cell Solar Module (182)



ABOUT BEYONDSUN

Founded in 2008, Beyondsun is the world's leading PV manufacturer and one-stop solution provider. With multiple manufacturing bases and more than 8 branches around the world, our business covers cells, modules, aluminum frame and PV projects. With its advantages of continuous technological innovation, strong financial performance, and well-established global sales and service networks, Beyondsun has been highly recognized by its global partners. Until now, Beyondsun has distributed more than 8 GW PV products to over 30 countries all over the world. We are committed to collaborate with our partners in driving renewable energy together.



ULTRA HIGH MODULE EFFICIENCY

More power output with 182 MBB mono PERC half-cut cell



MORE ENERGY YIELD

Lower NMOT and better temperature coefficient by lower cell series resistance, helps boost energy yield



LOWER OPERATING TEMPERATURE, MORE RELIABLE

Lower operating temperature and hot spot temperature during the sunny day, making the module prevail during the sunny days



BETTER SHADING TOLERANCE

Thanks to paralleling circuit design, more power generated under shading condition and during morning & evening time



BETTER MICRO CRACK RESISTANCE

Minimize the impact by micro crack by limiting cell damage and potentially extending area by half-cut module architecture



1500V SYSTEM VOLTAGE

Approved IEC1500Vdc system voltage, saving on BoS cost

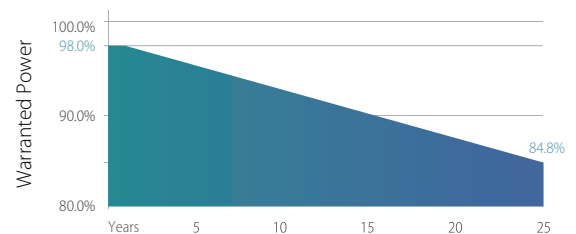
QUALIFICATIONS & CERTIFICATES

- IEC 61215 / IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- OHSAS 18001: Occupational Health and Safety



INDUSTRY LEADING WARRANTY

- 25-Year** Linear Performance Warranty
- 12-Year** Product Material & Workmanship Warranty
- LLOYD'S** Product & Performance Insured by LLOYD'S



THE IDEAL SOLUTION FOR



Residential rooftop projects



Commercial / industrial rooftop projects

DuDrive Max Series TSHM-108HV 400-410

ELECTRICAL PARAMETERS @ STC*

Module Type	TSHM400-108HV	TSHM405-108HV	TSHM410-108HV
Max. Power Output Pmax (W)	400	405	410
Power Tolerance	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	31.06	31.21	31.35
Max. Power Current Imp (A)	12.88	12.98	13.08
Open Circuit Voltage Voc (V)	36.83	36.98	37.12
Short Circuit Current Isc (A)	13.76	13.86	13.96
Module Efficiency (%)	20.46%	20.72%	20.97%

*STC (Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25 °C, Air Mass 1.5

ELECTRICAL PARAMETERS @ NMOT*

Max. Power Output Pmax (W)	300	304	308
Max. Power Voltage Vmp (V)	28.90	29.04	29.20
Max. Power Current Imp (A)	10.39	10.47	10.55
Open Circuit Voltage Voc (V)	35.01	35.16	35.29
Short Circuit Current Isc (A)	11.09	11.18	11.26

*NMOT (Nominal Module Operating Temperature), Irradiance of 800W/ m², Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmp	-0.36%/°C
Temperature Coefficients of Voc	-0.29%/°C
Temperature Coefficients of Isc	+0.048 %/°C
NMOT	41°C±3°C

MECHANICAL PARAMETERS

Cell Type	Mono, 182x91mm
Cell Arrangement	108 pcs (2x(6x10))
Dimension (LxWxH)	1724x1134x35mm
Weight	21.5kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 bypass diodes
Cable	4mm ² solar cable, 400mm (customizable)
Connector	MC4 Compatible

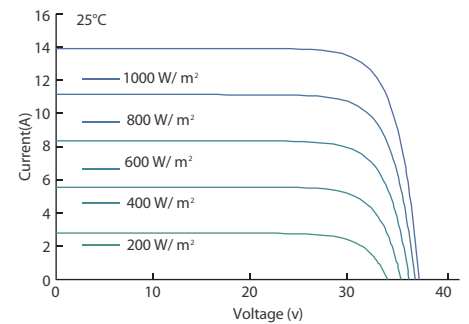
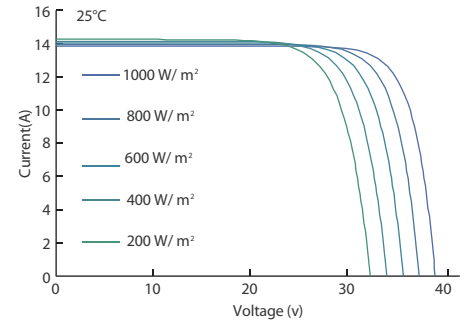
OPERATING PARAMETERS

Maximum System Voltage(V)	1500(DC)
Operating Temperature(°C)	-40~+85
Max. Wind Load / Snow Load(Pa)	2400/5400
Max. Over Current(A)	25
Application Class	Class A
Fire Rating	Class C

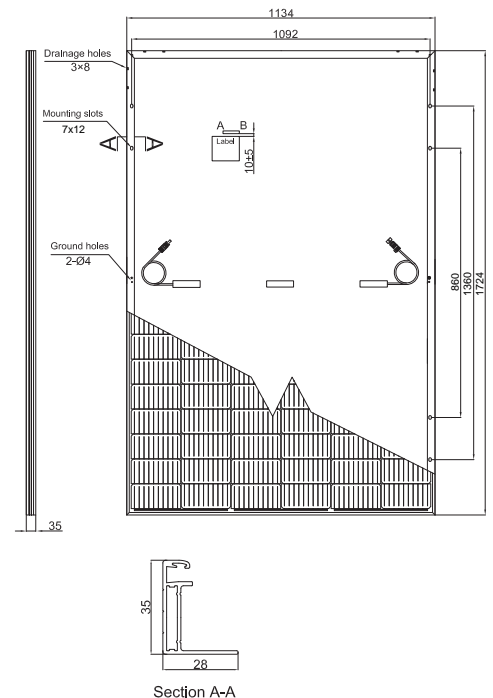
PACKAGE INFORMATION

Quantity / Pallet	31 pcs
Container 40'HQ	26 pallets, 806 pcs

I-V CURVES



TECHNICAL DRAWINGS



*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.