

iNFINITY

N-type

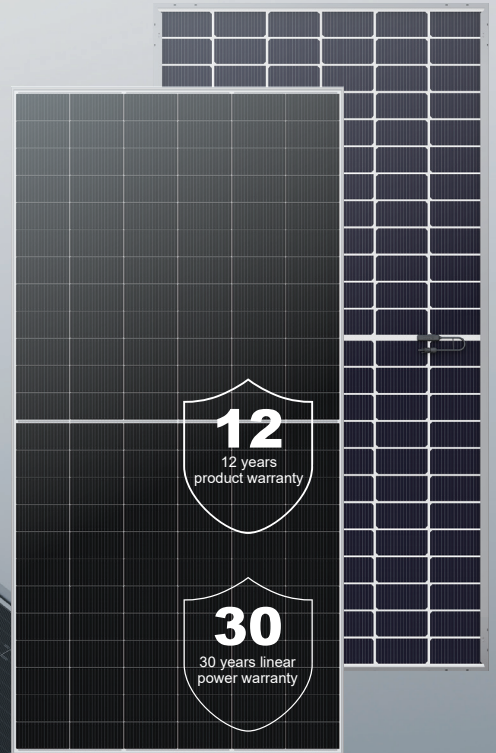
Bifacial Module with Double Glass

DMxxxM10T-72HSW

580~600W

23.2%
Max. Efficiency

- **Leading manufacturing**
40+ years experience in high-tech manufacturing.
- **High environmental, social and governance responsibility (ESG)**
100% green production, transparent supply chain and excellent ESG rating in the solar industry.



Higher Module Efficiency

Increased energy yield due to optimized material use.



High Reliability

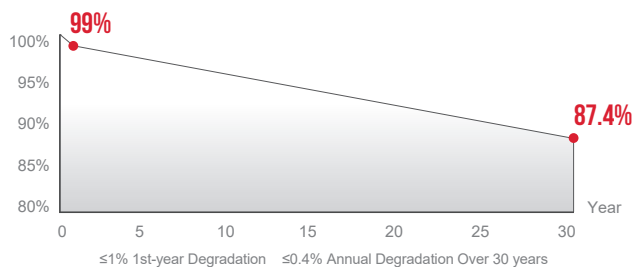
Excellent resistance to harsh environmental conditions such as salt, ammonia, sand, and hail.



Green Product

Focus on circular economy - low carbon footprint, PFAS-free and recyclable components.

POWER WARRANTY



COMPANY MANAGEMENT SYSTEM

- SA 8000: ILO Standards. Social responsibility standards
- ISO 9001: Quality management system
- ISO 14001: Environmental management system
- ISO 45001: Occupational health and safety management system
- ISO 50001: Energy management system
- ISO 27001: Information security management system

PRODUCT CERTIFICATION

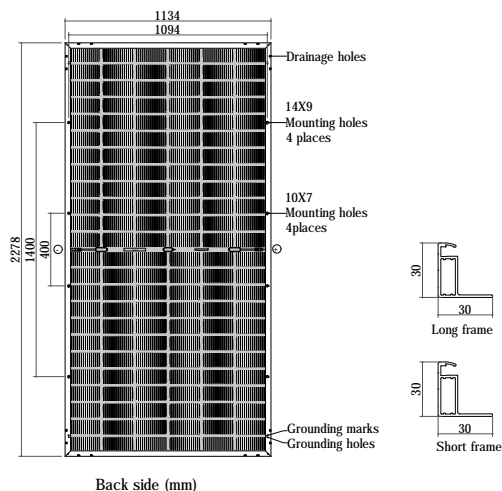
- IEC 61215, IEC 61730
- Ammonia Corrosion (IEC 62716)
- Salt Mist Corrosion (IEC 61701)
- LeTID (IEC TS 63342)
- Dust & Sand (IEC 60068)



DMxxxM10T-72HSW

Module Specification

Cell Type	N type Mono-crystalline, 144(6×24)
Dimensions (mm)	2278×1134×30
Weight (kg)	32.4
Front Cover	4.0 mm tempered glass
Rear Cover	Backsheet
Junction Box	3 Diodes, IP68 according to IEC 62790
Cables	4mm ² /Portrait: 350mm (+)/250mm(-) Landscape: 1300mm(+)/1300mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4 (1000V) PV-ZH202B or MC4-EVO 2A (1500V)



Back side (mm)

Electrical Specifications¹

Module Type	DM580M10T-72HSW		DM585M10T-72HSW		DM590M10T-72HSW		DM595M10T-72HSW		DM600M10T-72HSW	
	DM580M10T-72HSW-V ⁴		DM585M10T-72HSW-V		DM590M10T-72HSW-V		DM595M10T-72HSW-V		DM600M10T-72HSW-V	
Testing Condition	STC ²	NMOT ³	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	580	436	585	440	590	444	595	448	600	452
Maximum Power Current (Imp/A)	13.24	10.64	13.30	10.69	13.36	10.74	13.42	10.79	13.47	10.83
Maximum Power Voltage (Vmp/V)	43.85	41.00	44.04	41.18	44.23	41.36	44.42	41.54	44.61	41.72
Short-circuit Current (Isc/A)	13.99	11.33	14.05	11.38	14.11	11.43	14.17	11.48	14.23	11.53
Open-circuit Voltage (Voc/V)	52.50	49.43	52.70	49.62	52.90	49.81	53.10	50.00	53.30	50.19
Module Efficiency STC (%)	22.5		22.6		22.8		23.0		23.2	

¹ Measurements according to IEC 60904-3, Measurement tolerance: Isc: ±4%, Voc: ±3%, Test uncertainty for Pmax: ±3%

² STC (Standard Test Condition): Radiation 1000W/m², Module temperature 25°C, AM=1.5

³ NMOT: Radiation 800W/m², Ambient temperature 20°C, AM=1.5, Wind Speed 1m/s

⁴ "V" represents the mono-facial module type applied to a maximum system voltage of 1500V DC

Electrical Specifications¹(BNPI²)

Nameplate Power (W)	580	585	590	595	600
Maximum Power (Pmax/W)	641	647	652	658	663
Maximum Power Current (Imp/A)	14.61	14.67	14.74	14.81	14.86
Maximum Power Voltage (Vmp/V)	43.90	44.09	44.28	44.47	44.66
Short-circuit Current (Isc/A)	15.39	15.46	15.52	15.59	15.66
Open-circuit Voltage (Voc/V)	52.51	52.71	52.91	53.11	53.31

¹ Measurements according to IEC 60904-3, Measurement tolerance: Isc: ±4%, Voc: ±3%, Test uncertainty for Pmax: ±3%

² BNPI: Front radiation 1000W/m², Rear radiation 135W/m², Module temperature 25°C, AM=1.5

Temperature Characteristics

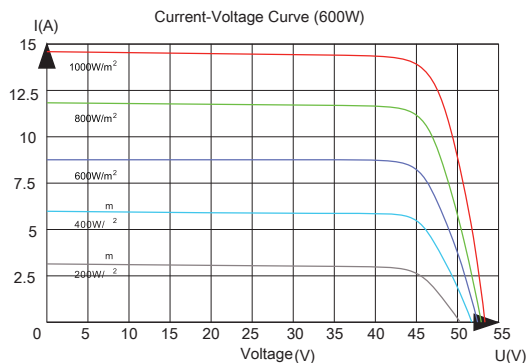
Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of Pmax (%/°C)	-0.29
Temperature Coefficient of Voc (%/°C)	-0.25
Temperature Coefficient of Isc (%/°C)	+0.048

Packaging

Container	40HQ
Pallet Dimensions (mm)	2320×1140×1250
Pieces per Pallet	36
Pieces per Container	576

Operating Conditions

Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1000/1500 DC(IEC)
Overcurrent Protection Rating (A)	30
Power Output Tolerance (%)	0~3
Protection Class	Class II
Max. Test Load, Push/Pull (Pa)	Front 5400 / Back 2400
Max. Design Load, Push/Pull (Pa)	Front 3600 / Back 1600



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Statement: The installation instructions and the warranty conditions must be followed. Due to technological progress, product parameters will be adjusted accordingly. When signing the contract, the latest data of the company shall prevail. All information in this data sheet corresponds to EN 50380. Changes and errors excepted. Document: EN DS-M10T-72HSW-20241218.

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