

# iNFINITY

## N-type

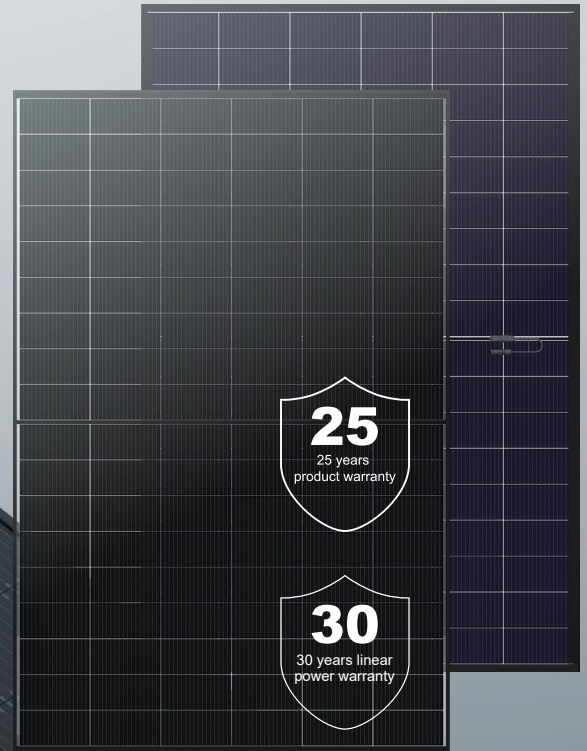
Bifacial Module with Double Glass

## DMxxxM10T-B54HBT

### 425~445W

**22.8%**  
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.



### Outstanding Aesthetics

Designed with aesthetics in mind and manufactured using DMEGC Advanced Black Technology.



### Extended Stress Tests

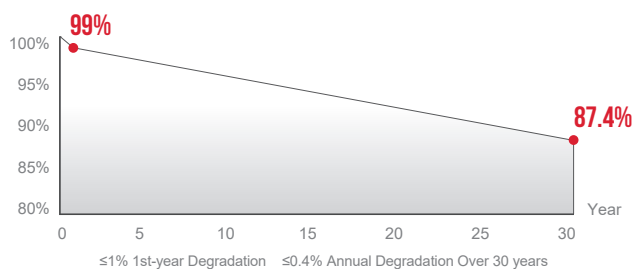
Protection against harsh environmental conditions  
Certified by TÜV Rheinland.



### 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
- Extended-Stress (IEC TS 63209)
- Ammonia Corrosion (IEC 62716)
- Salt Mist Corrosion (IEC 61701)
- LeTID (IEC TS 63342)
- Dust & Sand (IEC 60068)



SolarPower Europe



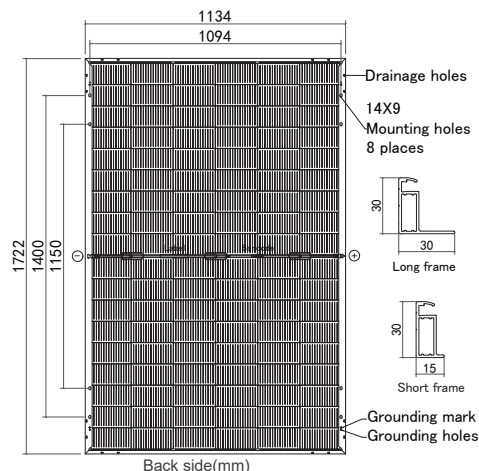
Warranty partner

Munich RE

# DMxxxM10T-B54HBT

## Module Specification

Cell Type	N type Mono-crystalline, 108 (6×18)
Dimensions (mm)	1722×1134×30
Weight (kg)	23.6
Front Cover	2 mm heat strengthened glass
Rear Cover	2 mm heat strengthened glass
Junction Box	3 Diodes, IP68 according to IEC 62790
Cables	4mm <sup>2</sup> /Portrait: 350mm (+)/250mm(-) Landscape: 1100mm(+)/1100mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4 (1000V) PV-ZH202B or MC4-EVO 2A (1500V)



## Electrical Specifications<sup>1</sup>

Module Type	DM425M10T-B54HBT-U <sup>4</sup> DM425M10T-B54HBT		DM430M10T-B54HBT-U DM430M10T-B54HBT		DM435M10T-B54HBT-U DM435M10T-B54HBT		DM440M10T-B54HBT-U DM440M10T-B54HBT		DM445M10T-B54HBT-U DM445M10T-B54HBT	
	STC <sup>2</sup>	NMOT <sup>3</sup>	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P <sub>max</sub> /W)	425	320	430	324	435	327	440	331	445	335
Maximum Power Current (I <sub>mp</sub> /A)	13.03	10.47	13.10	10.53	13.17	10.59	13.24	10.64	13.31	10.70
Maximum Power Voltage (V <sub>mp</sub> /V)	32.63	30.51	32.83	30.70	33.03	30.89	33.24	31.08	33.45	31.28
Short-circuit Current (I <sub>sc</sub> /A)	13.81	11.19	13.88	11.24	13.95	11.30	14.02	11.36	14.09	11.41
Open-circuit Voltage (V <sub>oc</sub> /V)	39.24	36.95	39.44	37.14	39.64	37.32	39.84	37.51	40.04	37.70
Module Efficiency STC (%)	21.8		22.0		22.3		22.5		22.8	

<sup>1</sup> Measurements according to IEC 60904-3, Measurement tolerance: I<sub>sc</sub>: ±4%, V<sub>oc</sub>: ±3%, Test uncertainty for P<sub>max</sub>: ±3%, Bifaciality: 80% ±5%

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

<sup>3</sup> NMOT: Radiation 800 W/m<sup>2</sup>, Ambient temperature 20 °C, AM = 1.5, Wind Speed 1 m/s

<sup>4</sup> "U" represents the double glass module type applied to a maximum system voltage of 1000V DC

## Electrical Specifications<sup>1</sup> (BNPI<sup>2</sup>)

Nameplate Power (W)	425	430	435	440	445
Maximum Power (P <sub>max</sub> /W)	470	475	481	486	492
Maximum Power Current (I <sub>mp</sub> /A)	14.38	14.46	14.53	14.61	14.69
Maximum Power Voltage (V <sub>mp</sub> /V)	32.67	32.87	33.07	33.28	33.49
Short-circuit Current (I <sub>sc</sub> /A)	15.19	15.27	15.35	15.42	15.50
Open-circuit Voltage (V <sub>oc</sub> /V)	39.24	39.44	39.64	39.84	40.04

<sup>1</sup> Measurements according to IEC 60904-3, Measurement tolerance: I<sub>sc</sub>: ±4%, V<sub>oc</sub>: ±3%, Test uncertainty for P<sub>max</sub>: ±3%

<sup>2</sup> BNPI: Front radiation 1000 W/m<sup>2</sup>, Rear radiation 135 W/m<sup>2</sup>, Module temperature 25 °C, AM = 1.5

## Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42±2 °C
Temperature Coefficient of P <sub>max</sub> (%/°C)	-0.29
Temperature Coefficient of V <sub>oc</sub> (%/°C)	-0.25
Temperature Coefficient of I <sub>sc</sub> (%/°C)	+0.048

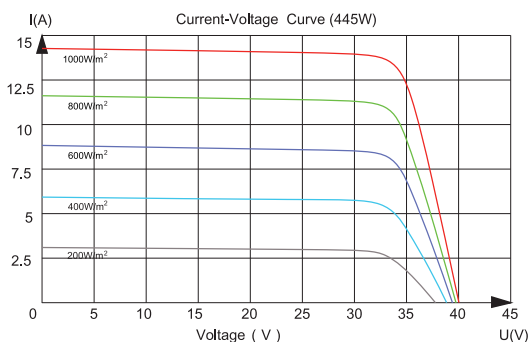
## Packaging

Container	40HQ
Pallet Dimensions (mm)	1770×1140×1250
Pieces per Pallet	36
Pieces per Container	936

## 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
Hail Class	HW3*

\* Reference diameter of ice balls-VKF 30 mm, Ice ball storage temp -20 °C.



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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-B54HBT-20240730.

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