



Residential / Commercial



## N-Type

### Bifacial Module with Double Glass

# Type: DMxxxM10RT-B54HBT

Power Range: 435 - 450 W

Max. Efficiency : 22.5 %



#### Bifacial Module Application

Up to 25 % higher electricity yields due to active cell technology in bifacial glass/glass modules on both sides.



#### Better Performance

Our modules perform better on sunny and hot days thanks to its optimized temperature coefficient.



#### Excellent Low Light Performance

Our modules can also provide higher power output under low light conditions, such as sunset, cloudy, or dawn.



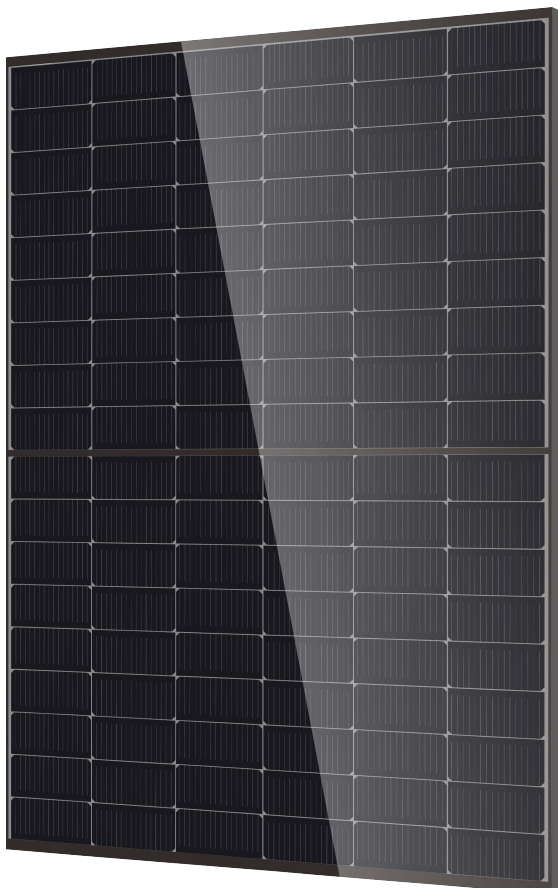
#### Excellent Quality

More than 40 years' experience of manufacturing and intensive quality tests above the IEC standard ensures reliable modules and a secured investment.



#### Assumption of Environmental, Social and Governance Responsibility (ESG)

DMEGC stands for his responsibility. Production is certified according to SA 8000 (ILO standards).



## Certifications

- 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



A member of Hengdian Group

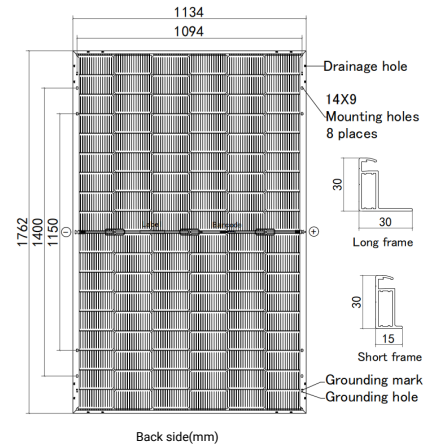


# DMxxxM10RT-B54HBT



## Module Specification

|                 |                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------|
| Cell Type       | N-type Mono-crystalline, 108 (6x18)                                                                          |
| Dimensions (mm) | 1762 x 1134 x 30                                                                                             |
| Weight (kg)     | 24.5                                                                                                         |
| Front Cover     | 2mm heat strengthened glass with anti-reflective coating                                                     |
| Rear Cover      | 2mm heat strengthened glass                                                                                  |
| Junction Box    | 3 Diodes, IP68 according to IEC 62790                                                                        |
| Cables          | 4mm <sup>2</sup> /Portrait: 350mm (+)/250mm(-)<br>Landscape: 1100mm(+)/1100mm(-)<br>Length can be customized |
| Connector Type  | PV-ZH202B or MC4-EVO 2A (1500V)                                                                              |



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

| Module Type                   | DM435M10RT-B54HBT |                   | DM440M10RT-B54HBT |       | DM445M10RT-B54HBT |       | DM450M10RT-B54HBT |       |
|-------------------------------|-------------------|-------------------|-------------------|-------|-------------------|-------|-------------------|-------|
| Testing Condition             | STC <sup>2</sup>  | NMOT <sup>3</sup> | STC               | NMOT  | STC               | NMOT  | STC               | NMOT  |
| Maximum Power (Pmax/W)        | 435               | 327               | 440               | 331   | 445               | 335   | 450               | 339   |
| Maximum Power Current (Imp/A) | 13.33             | 10.78             | 13.40             | 10.83 | 13.47             | 10.89 | 13.54             | 10.95 |
| Maximum Power Voltage (Vmp/V) | 32.64             | 30.49             | 32.84             | 30.67 | 33.04             | 30.86 | 33.24             | 31.05 |
| Short-circuit Current (Isc/A) | 13.83             | 11.14             | 13.90             | 11.19 | 13.97             | 11.25 | 14.04             | 11.31 |
| Open-circuit Voltage (Voc/V)  | 39.20             | 37.13             | 39.40             | 37.32 | 39.60             | 37.51 | 39.80             | 37.70 |
| Module Efficiency STC (%)     | 21.8              |                   | 22.0              |       | 22.3              |       | 22.5              |       |

<sup>1</sup> Measurements according to IEC 60904-3, Measurement tolerance: ISC: ±4%, VOC: ±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

## BIFACIAL OUTPUT - REAR SIDE POWER GAIN

|      |            |     |     |     |     |
|------|------------|-----|-----|-----|-----|
| 10 % | Pmax (STC) | 479 | 484 | 490 | 495 |
| 20 % | Pmax (STC) | 522 | 528 | 534 | 540 |
| 30 % | Pmax (STC) | 566 | 572 | 579 | 585 |

## Certifications and Warranty

|                       |                                          |
|-----------------------|------------------------------------------|
| Certifications        | IEC 61215, IEC 61730                     |
|                       | Ammonia Corrosion Test: IEC 62716        |
|                       | Salt Mist Corrosion Test: IEC 61701      |
|                       | PID (IEC TS 62804); LeTID (IEC TS 63342) |
| WEEE Registration No. | Dust & Sand (IEC 60068)                  |
|                       | DE 50188598                              |
| Product Warranty      | 25 years                                 |
| Peak Power Warranty   | 30 years linear warranty                 |

1.) First year: min. 99 %. 2.) From the 2nd year: Max. 0.4 % degradation annually. 3.) Min. 87.4 % in the 30th year.

## Temperature Characteristics

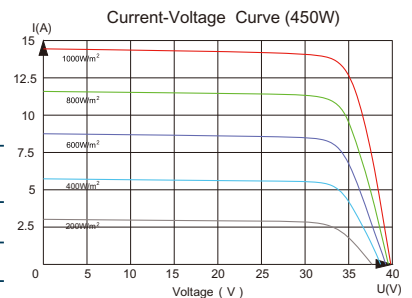
|                                             |           |
|---------------------------------------------|-----------|
| Nominal Module Operating Temperature (NMOT) | 42 ± 2 °C |
| Temperature Coefficient of Pmax (%/ °C)     | -0.29     |
| Temperature Coefficient of Voc (%/ °C)      | -0.25     |
|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

## Packaging

|                       |                    |
|-----------------------|--------------------|
| Container             | 40' HQ             |
| Pallet Dimensions(mm) | 1800 × 1140 × 1250 |
| Pieces per Pallet     | 36                 |
| Pieces per Container  | 936                |

## Operating conditions

|                                   |                       |
|-----------------------------------|-----------------------|
| Operating Temperature ( °C)       | -40 to +85            |
| Maximum System Voltage(V)         | 1500 DC (IEC)         |
| Overcurrent protection rating (A) | 30                    |
| Power Performance Tolerance (%)   | 0 / +3                |
| Protection class                  | II                    |
| Max. Test Load, Push/Pull (Pa)    | Snow 5400 / Wind 2400 |
| Max. Design Load, Push/Pull (Pa)  | 3600 / 1600           |



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.



Hengdian Group DMEGC Magnetics Co., Ltd.  
Hengdian Industrial Zone, Dongyang City Zhejiang Province,  
China 322118  
Tel: 0086-579-8658-8825 Fax: 0086-579-8655-4845  
E-mail: solar@dmegc.com.cn, Website: www.dmegcsolar.com

All information in this data sheet corresponds to EN 50380. Changes and errors excepted.  
Status: 12/2023, Document: EN\_DS-M10RT-B54HBT-202312\_4

Copyright © 2023 Hengdian Group DMEGC Magnetics.  
All rights reserved.