

# iNFINITY RT

## N-type

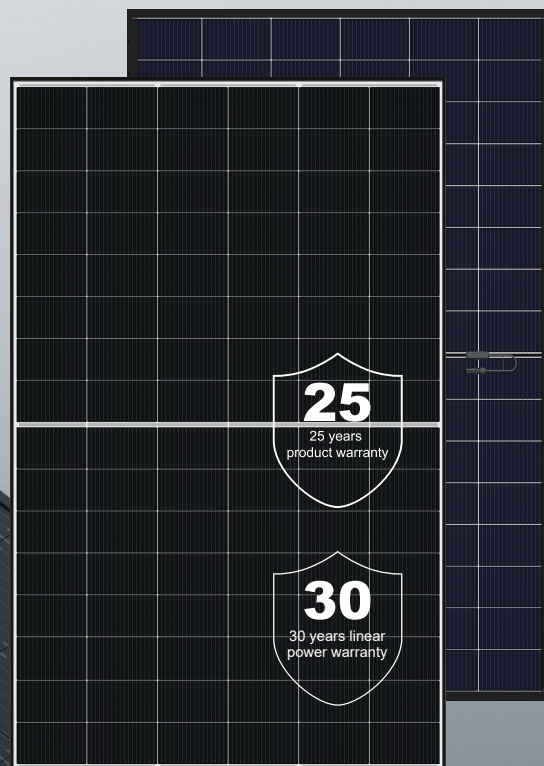
Bifacial Module with Double Glass

# DMxxxG12RT-B48HBW

# 455~475W

**23.8%**  
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.



### Higher Module Efficiency

Increased energy yield due to optimized material use.



### 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.

## 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

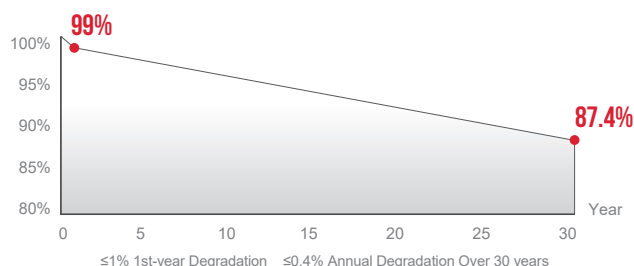
IEC 61215, IEC 61730  
Extended-Stress (IEC TS 63209)  
Ammonia Corrosion (IEC 62716)  
Salt Mist Corrosion (IEC 61701)  
LeTID (IEC TS 63342)  
Dust & Sand (IEC 60068)



Warranty partner



## POWER WARRANTY

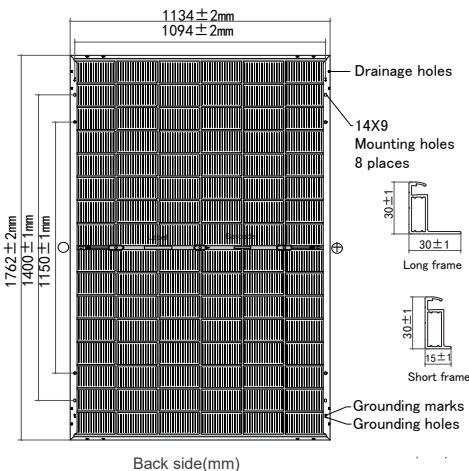


# DMxxxG12RT-B48HBW



## Module Specification

|                                        |                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Cell Type                              | N type Mono-crystalline, 96 (6×16)                                                                                     |
| Dimensions (mm)                        | 1762×1134×30                                                                                                           |
| Weight (kg)                            | 24.0                                                                                                                   |
| Front Cover                            | 2 mm heat strengthened glass, Anti-reflective coating                                                                  |
| Rear Cover                             | 2 mm heat strengthened glass                                                                                           |
| Junction Box                           | 3 Diodes, IP68 according to IEC 62790                                                                                  |
| Output Cables<br>(Including Connector) | 4 mm <sup>2</sup> /Portrait: 300 mm (+) /200 mm (-)<br>Landscape: 1100 mm (+) /1100 mm (-)<br>Length can be customized |
| Connector Type                         | PV-ZH202B or MC4-EVO 2A                                                                                                |



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

| Module Type                                | DM455G12RT-B48HBW |                   | DM460G12RT-B48HBW |       | DM465G12RT-B48HBW |       | DM470G12RT-B48HBW |       | DM475G12RT-B48HBW |       |
|--------------------------------------------|-------------------|-------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| Testing Condition                          | STC <sup>2</sup>  | NMOT <sup>3</sup> | STC               | NMOT  | STC               | NMOT  | STC               | NMOT  | STC               | NMOT  |
| Maximum Power (P <sub>max</sub> /W)        | 455               | 347               | 460               | 351   | 465               | 354   | 470               | 358   | 475               | 362   |
| Maximum Power Current (I <sub>mp</sub> /A) | 14.83             | 12.05             | 14.87             | 12.08 | 14.91             | 12.11 | 14.95             | 12.15 | 14.99             | 12.18 |
| Maximum Power Voltage (V <sub>mp</sub> /V) | 30.69             | 28.80             | 30.95             | 29.04 | 31.21             | 29.28 | 31.47             | 29.53 | 31.68             | 29.73 |
| Short-circuit Current (I <sub>sc</sub> /A) | 15.78             | 12.72             | 15.83             | 12.76 | 15.88             | 12.80 | 15.93             | 12.84 | 15.98             | 12.88 |
| Open-circuit Voltage (V <sub>oc</sub> /V)  | 36.18             | 34.82             | 36.32             | 34.96 | 36.46             | 35.09 | 36.60             | 35.22 | 36.74             | 35.36 |
| Module Efficiency STC (%)                  | 22.8              |                   | 23.0              |       | 23.3              |       | 23.5              |       | 23.8              |       |

<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



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

|                                            |       |       |       |       |       |
|--------------------------------------------|-------|-------|-------|-------|-------|
| Nameplate Power (W)                        | 455   | 460   | 465   | 470   | 475   |
| Maximum Power (P <sub>max</sub> /W)        | 503   | 508   | 514   | 519   | 525   |
| Maximum Power Current (I <sub>mp</sub> /A) | 16.37 | 16.41 | 16.45 | 16.50 | 16.54 |
| Maximum Power Voltage (V <sub>mp</sub> /V) | 30.73 | 30.99 | 31.25 | 31.51 | 31.72 |
| Short-circuit Current (I <sub>sc</sub> /A) | 17.36 | 17.42 | 17.47 | 17.53 | 17.58 |
| Open-circuit Voltage (V <sub>oc</sub> /V)  | 36.18 | 36.32 | 36.46 | 36.60 | 36.74 |

<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

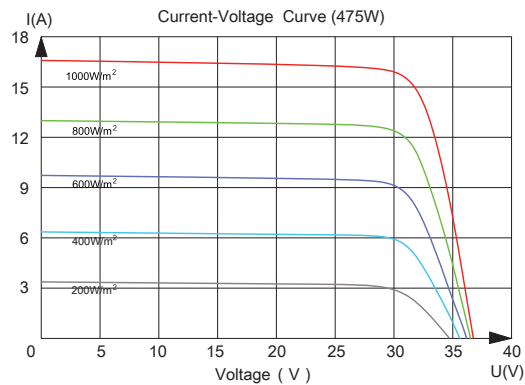
|                        |                |
|------------------------|----------------|
| Container              | 40HQ           |
| Pallet Dimensions (mm) | 1800x1140x1250 |
| Pieces per Pallet      | 36             |
| Pieces per Container   | 936            |



## Operating Conditions

|                                   |                        |
|-----------------------------------|------------------------|
| Operating Temperature (°C)        | -40 to +85             |
| Maximum System Voltage (V)        | 1500 DC (IEC)          |
| Overcurrent Protection Rating (A) | 30                     |
| Power 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 30mm, Ice ball storage temperature -20°C.



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