

# iNFINITY RT

## N-type

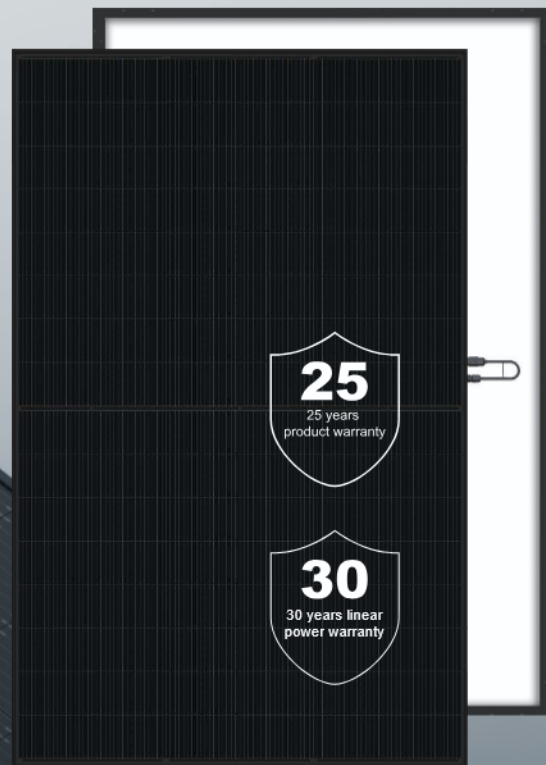
Mono facial Module with Double Glass

# DMxxxG12RT-G48HBB

# 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.



### Outstanding Aesthetics

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



### Extended Stress Tests

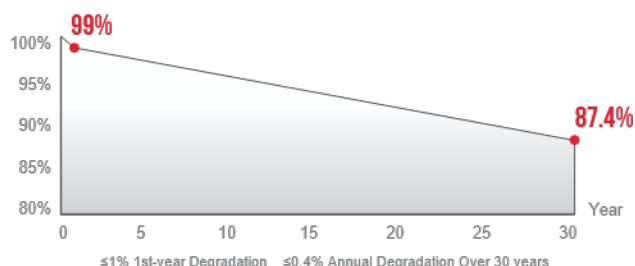
Protection against harsh environmental conditions  
Certified by TÜV Rheinland.



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

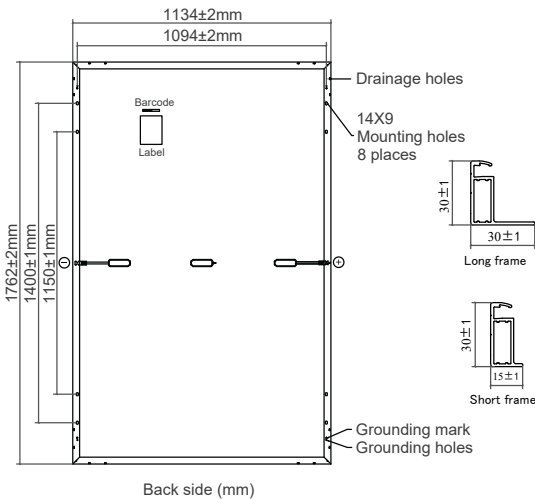


# DMxxxG12RT-G48HBB



## 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 (1500V)                                                                                      |



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

| Module Type                   | DM455G12RT-G48HBB |                   | DM460G12RT-G48HBB |       | DM465G12RT-G48HBB |       | DM470G12RT-G48HBB |       | DM475G12RT-G48HBB |       |
|-------------------------------|-------------------|-------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| Testing Condition             | STC <sup>2</sup>  | NMOT <sup>3</sup> | STC               | NMOT  | STC               | NMOT  | STC               | NMOT  | STC               | NMOT  |
| Maximum Power (Pmax/W)        | 455               | 347               | 460               | 351   | 465               | 354   | 470               | 358   | 475               | 362   |
| Maximum Power Current (Imp/A) | 14.83             | 12.05             | 14.87             | 12.08 | 14.91             | 12.11 | 14.95             | 12.15 | 14.99             | 12.18 |
| Maximum Power Voltage (Vmp/V) | 30.69             | 28.80             | 30.95             | 29.04 | 31.21             | 29.28 | 31.47             | 29.53 | 31.68             | 29.73 |
| Short-circuit Current (Isc/A) | 15.78             | 12.72             | 15.83             | 12.76 | 15.88             | 12.80 | 15.93             | 12.84 | 15.98             | 12.88 |
| Open-circuit Voltage (Voc/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: Isc: ±4%, Voc: ±3%, Test uncertainty for Pmax: ±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



## Operating Conditions

|                                   |                        |
|-----------------------------------|------------------------|
| Operating Temperature (°C)        | -40 to +85             |
| Maximum System Voltage (V)        | 1500 DC(IEC)           |
| Overcurrent Protection Rating (A) | 25                     |
| 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 |



## Temperature Characteristics

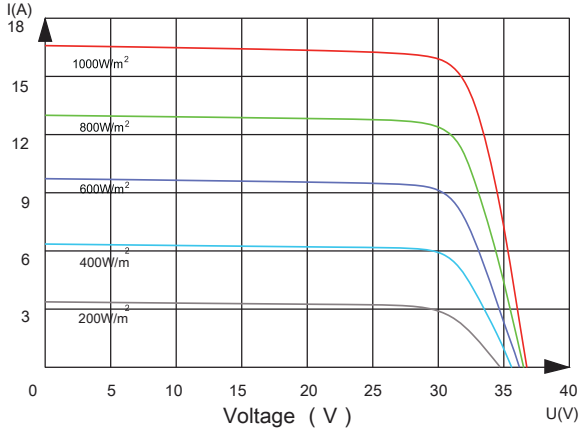
|                                             |        |
|---------------------------------------------|--------|
| Nominal Module Operating Temperature (NMOT) | 42±2°C |
| Temperature Coefficient of Pmax (%/°C)      | -0.29  |
| Temperature Coefficient of Voc (%/°C)       | -0.25  |
| Temperature Coefficient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



## Packaging

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

Current-Voltage Curve (475W)



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