DMEGC SOLAR

TIER 1 Bloomberg NEW ENERGY FINANCE

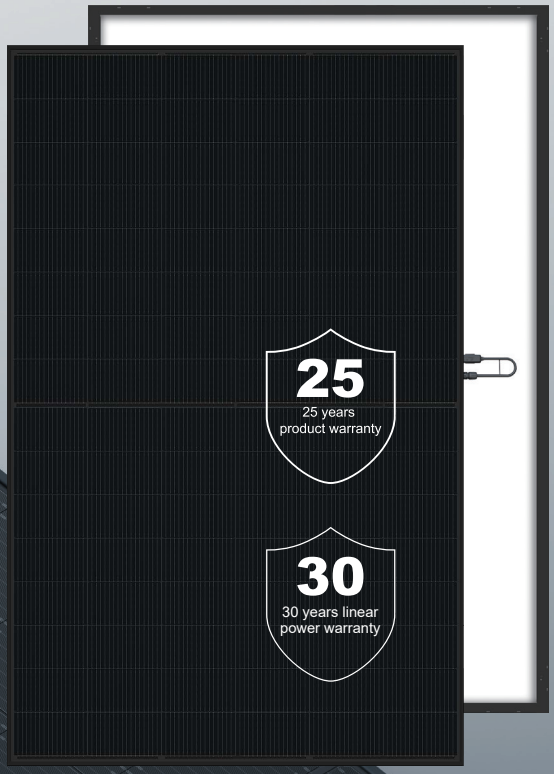
# iNFINITY RT

## N-type

Mono facial Module with Double Glass

# DMxxxG12RT-G48HBB

# 455~475W




**23.8%**
**Max. Efficiency**

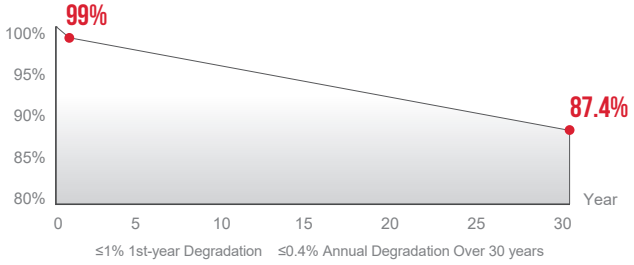
- **Leading manufacturing**
  40+ years experience in high-tech manufacturing.
- **High environmental, social and governance responsibility (ESG)**
  100% green production, transparent supply chain and excellent ESG rating in the solar industry.

**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)

SolarPower Europe

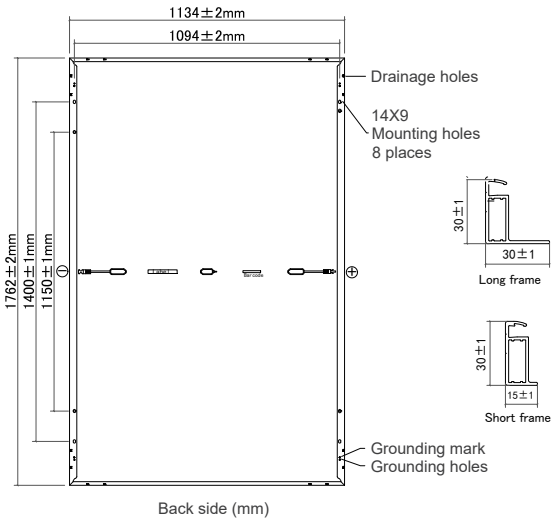
Warranty partner
Munich RE

A member of Hengdian Group

# 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 (Including Connector) | 4 mm²/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[1]

| Module Type | DM455G12RT-G48HBB | | DM460G12RT-G48HBB | | DM465G12RT-G48HBB | | DM470G12RT-G48HBB | | DM475G12RT-G48HBB | |
|---|---|---|---|---|---|---|---|---|---|---|
| Testing Condition | STC[2] | NMOT[3] | 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 | |

[1] Measurements according to IEC 60904-3, Measurement tolerance: Isc: ±4%, Voc: ±3%, Test uncertainty for Pmax: ±3%, Bifaciality: 80%±5%

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

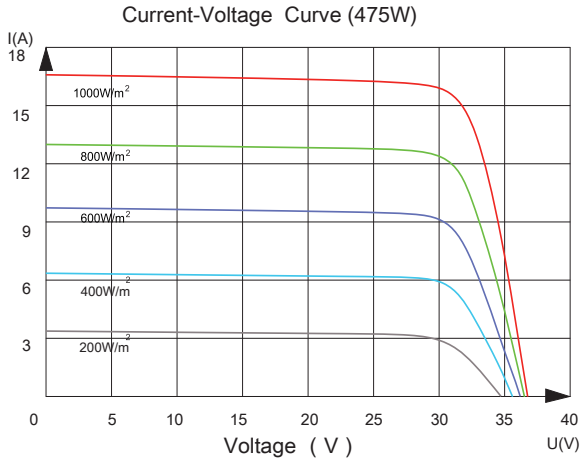
[3] NMOT: Radiation 800 W/m², Ambient temperature 20°C, AM = 1.5, Wind Speed 1 m/s

## 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 |


**Hengdian Group DMEGC Magnetics Co.,Ltd.**
**Add:** Hengdian Industrial Zone, Dongyang City Zhejiang Province, China 322118
**Tel:** 0086-579-8658-8826 **E-mail:** solar@dmegc.com.cn **Website:** www.dmegcsolar.com

**DMEGC Renewable Energy B.V.**
**Add:** Industrieweg 2,2641 RM Pijnacker, The Netherlands.
**Tel:** +31 (0) 8 58200765 **E-mail:** contact@dmegc.eu



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-G12RT-G48HBB-20250627.
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