DMEGC SOLAR

TIER 1 Bloomberg NEW ENERGY FINANCE

# iNFINITY RT 3.0

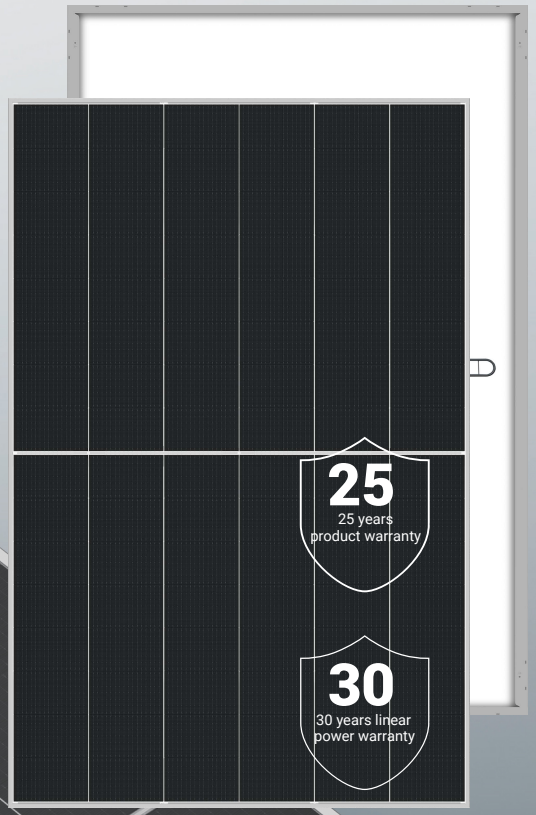
## N-type

### Mono facial Module with Double Glass

# DMxxxG12RT-G48HSW

# 460~485W

**24.3%**
**Max. Efficiency**



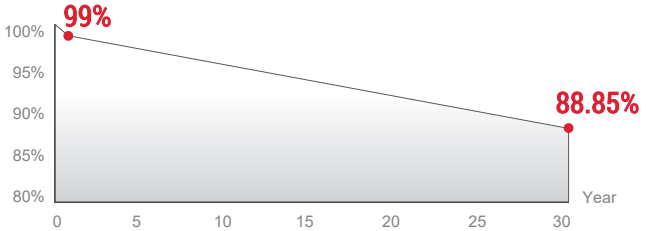

Please refer to the DMEGC Standard Limited Warranty for more details about the product warranty and power warranty.

**Higher Module Efficiency**
Increased energy yield due to optimized material use.

**Extended Stress Tests**
Protection against harsh environmental conditions Certified by TÜV.

**Leading Manufacturing**
40+ years experience in high-tech manufacturing.

## POWER WARRANTY




≤1% 1st-year Degradation, ≤0.35% Linear Annual Degradation (2nd to 30th year)

## 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

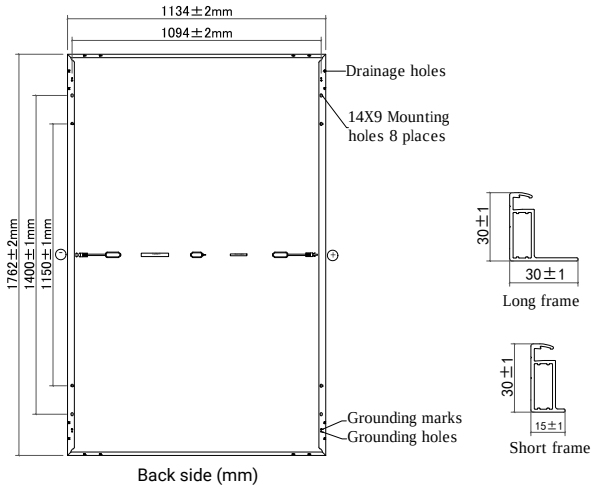
Warranty partner
Munich RE

A member of Hengdian Group

# DMxxxG12RT-G48HSW

## 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-D01 or MC4-EVO 2A (1500V) |




## Electrical Specifications[1]

| Module Type | DM460G12RT-G48HSW | | DM465G12RT-G48HSW | | DM470G12RT-G48HSW | | DM475G12RT-G48HSW | | DM480G12RT-G48HSW | | DM485G12RT-G48HSW | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Testing Condition | STC[2] | NMOT[3] | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax/W) | 460 | 351 | 465 | 354 | 470 | 358 | 475 | 362 | 480 | 366 | 485 | 370 |
| Maximum Power Current (Imp/A) | 15.06 | 12.24 | 15.13 | 12.29 | 15.20 | 12.35 | 15.27 | 12.41 | 15.34 | 12.46 | 15.41 | 12.52 |
| Maximum Power Voltage (Vmp/V) | 30.57 | 28.68 | 30.75 | 28.85 | 30.93 | 29.02 | 31.11 | 29.19 | 31.29 | 29.36 | 31.47 | 29.53 |
| Short-circuit Current (Isc/A) | 15.73 | 12.68 | 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) | 35.81 | 34.46 | 36.03 | 34.68 | 36.25 | 34.89 | 36.47 | 35.10 | 36.69 | 35.31 | 36.91 | 35.52 |
| Module Efficiency STC (%) | 23.0 | | 23.3 | | 23.5 | | 23.8 | | 24.0 | | 24.3 | |

[1] Measurements according to IEC 60904-3, Measurement tolerance: Pmax: ±3%, Isc: ±4%, Voc: ±3%

[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) | 30 |
| Power Sorting (%) | 0~3 |
| Protection Class | Class II |
| Fire Class | Class C (IEC) |
| Max. Test Load, Push/Pull (Pa) | Front 5400 / Back 2400 |
| Max. Design Load, Push/Pull (Pa) | Front 3600 / Back 1600 |
| Hail Class | HW3* |

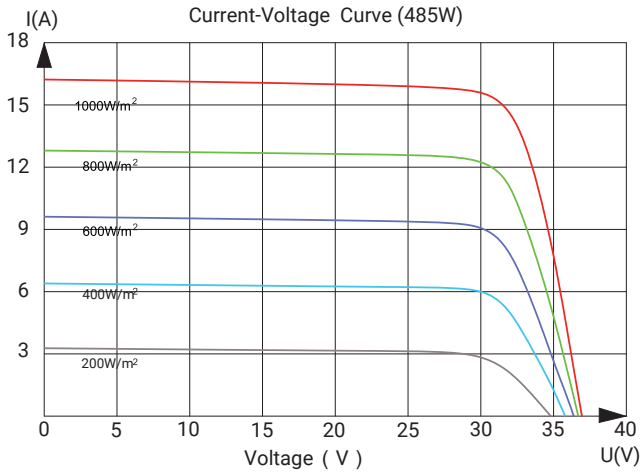
* Reference diameter of ice balls-VKF 30mm, Ice ball storage temp -20°C.

## Packaging

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

## 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 |





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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-G12RT-G48HSW-20261015.
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