DMEGC SOLAR

TIER 1 Bloomberg NEW ENERGY FINANCE

iNFINITY RT

N-type

Mono facial Module with Double Glass

DMxxxG12RT-G48HBB

455~475W



25
25 years product warranty

30
30 years linear power warranty

23.8%
Max. Efficiency

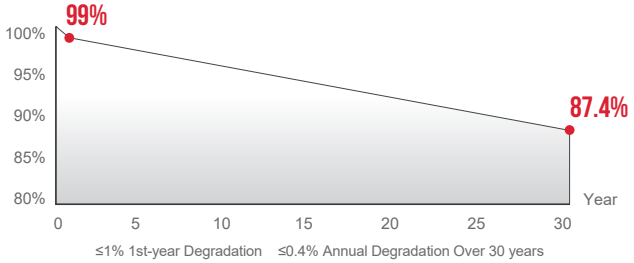
- **Leading manufacturing**
  40+ years experience in high-tech manufacturing.
- **High environmental, social and governance responsibility (ESG)**
  100% green production, transparent supply chain and excellent ESG rating in the solar industry.

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



≤1% 1st-year Degradation ≤0.4% Annual Degradation Over 30 years

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

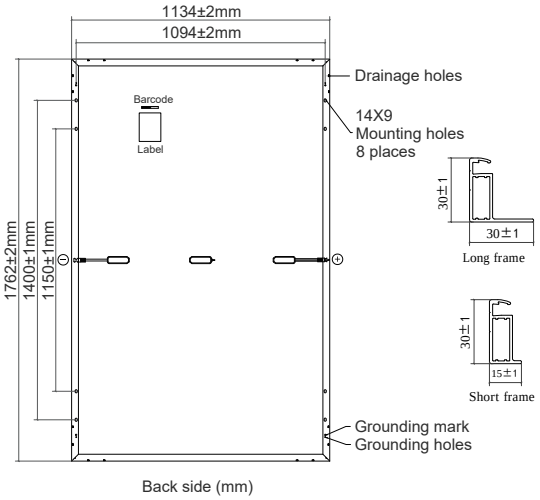
Munich RE

A member of Hengdian Group hg

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 (-) Landscape: 1100 mm (+) /1100 mm (-) Length can be customized
Connector Type	PV-ZH202B or MC4-EVO 2A (1500V)



Back side (mm)

Electrical Specifications[1]

Module Type	DM455G1 RT-G48HBB		DM460G1 RT-G48HBB		DM465G1 RT-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

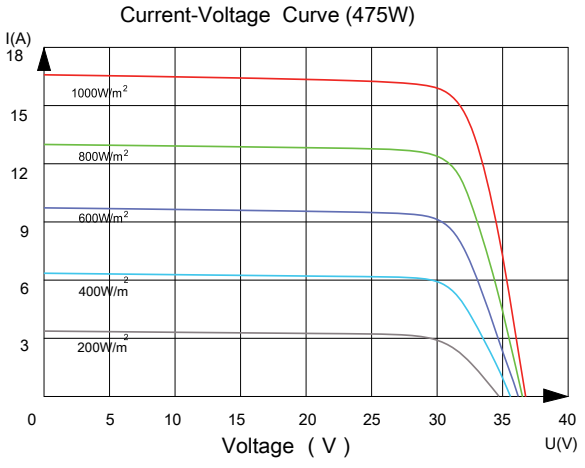
[3] NMOT: Radiation 800 W/m², Ambient temperature 20°C, AM = 1.5, Wind Speed 1 m/s

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

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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-G48HBB-20250627.
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