

iNFINITY RT

N-type
Mono-Facial Module

DMxxxG12RT-48HBB-V

450~475W

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.

20
20 years
product warranty

30
30 years linear
power warranty



Outstanding Aesthetics

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



High Reliability

Excellent resistance to harsh environmental conditions such as salt, ammonia, sand, and hail.



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



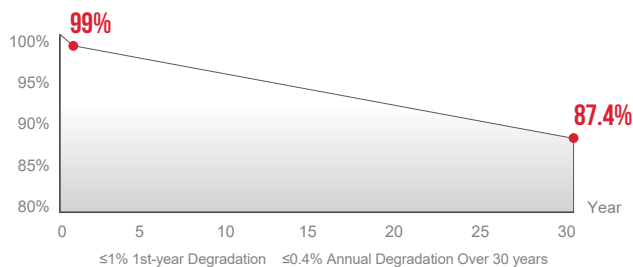
SolarPower Europe



Warranty partner



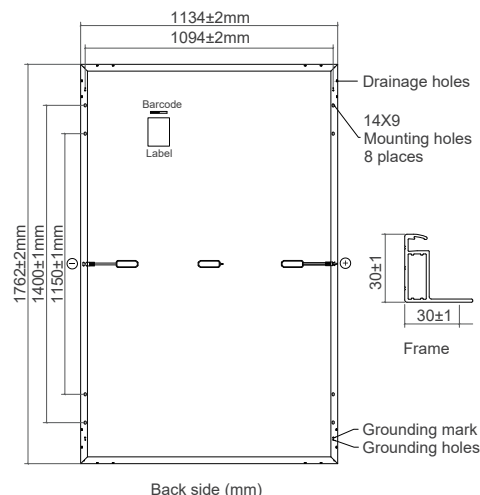
POWER WARRANTY



DMxxxG12RT-48HBB-V

Module Specification

Cell Type	N type Mono-crystalline, 96(6×16)
Dimensions (mm)	1762x1134x30
Weight (kg)	20.6
Front Cover	3.2 mm tempered glass, Anti-reflective coating
Rear Cover	Backsheet
Junction Box	3 Diodes, IP68 according to IEC 62790
Output Cables (Including Connector)	4 mm ² /Portrait: 300 mm (+) /200 mm (-) Landscape: 1100 mm (+) /1100 mm (-) Length can be customized
Connector Type	PV-ZH202B or MC4(1000V) PV-ZH202B or MC4-EVO 2A(1500V)



Electrical Specifications¹

Module Type	DM450G12RT-48HBB-V ⁴		DM455G12RT-48HBB-V		DM460G12RT-48HBB-V		DM465G12RT-48HBB-V		DM470G12RT-48HBB-V		DM475G12RT-48HBB-V	
	STC ²	NMOT ³	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	450	343	455	347	460	351	465	354	470	358	475	362
Maximum Power Current (Imp/A)	14.79	12.02	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)	30.43	28.55	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)	15.73	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)	36.04	34.69	36.18	34.82	36.32	34.96	36.46	35.09	36.60	35.22	36.74	35.36
Module Efficiency STC (%)	22.5		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%

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

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

⁴ "V" represents the mono-facial module type applied to a maximum system voltage of 1500V DC

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
Hail Class	HW4*

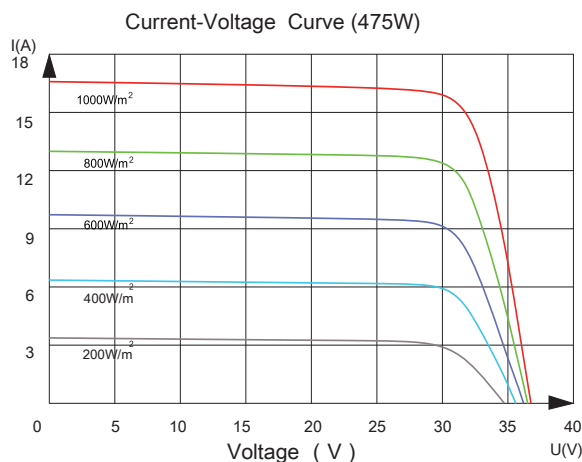
* Reference diameter of ice balls-VKF 40mm, Ice ball storage temp -20°C.

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-48HBB-V-20250627.

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