

iNFINITY RT

N-type

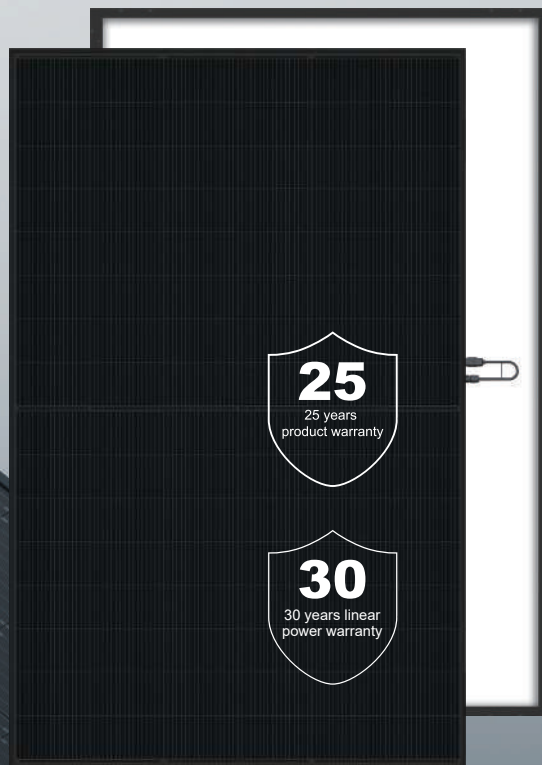
Mono facial Module with Double Glass

DMxxxG12RT-G48HBB-L

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.

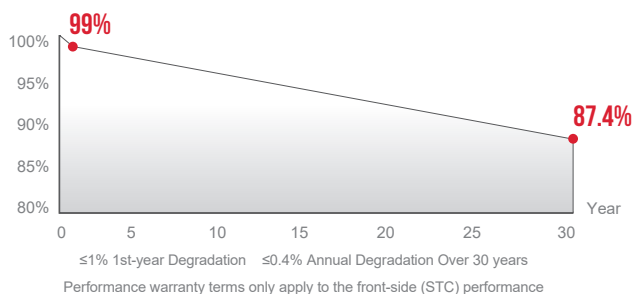
COMPANY MANAGEMENT SYSTEM

- 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

POWER WARRANTY



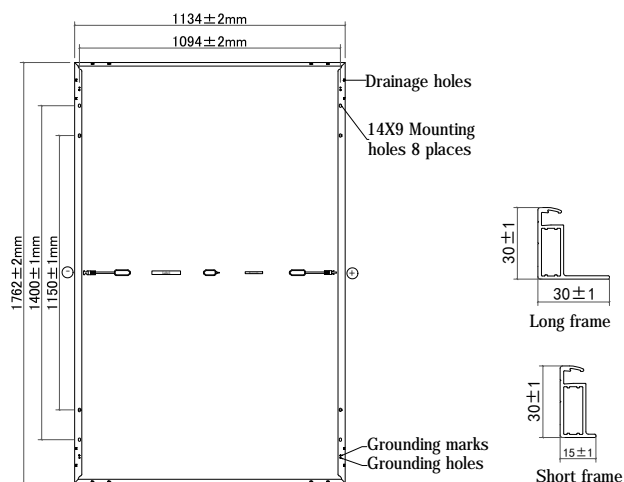
Warranty partner



DMxxxG12RT-G48HBB-L

Module Specification

Cell Type	N type Mono-crystalline, 96 (6×16)
Dimensions (mm)	1762×1134×30
Weight (kg)	21.6
Front Cover	1.6 mm heat strengthened glass, Anti-reflective coating
Rear Cover	1.6 mm heat strengthened glass
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	Stäubli: PV-KST4-EVO2/xy_UR, PV-KBT4-EVO2/xy_UR, PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy; Sunter: PV-ZH202B



Back side (note:mm)

Electrical Specifications¹

Module Type	DM455G12RT-G48HBB-L		DM460G12RT-G48HBB-L		DM465G12RT-G48HBB-L		DM470G12RT-G48HBB-L		DM475G12RT-G48HBB-L	
	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%

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 (T98) (°C)	-40 to +70
Maximum System Voltage (V)	1500 DC(IEC)
Overcurrent Protection Rating (A)	30
Power Output Tolerance (%)	0~3
Protection Class	Class II
Max. Test Load, Push/Pull (Pa) ⁵	+5400 / -2400
Max. Design Load, Push/Pull (Pa) ⁵	+3600 / -1600
Fire Rating Class	Class C according to UL790

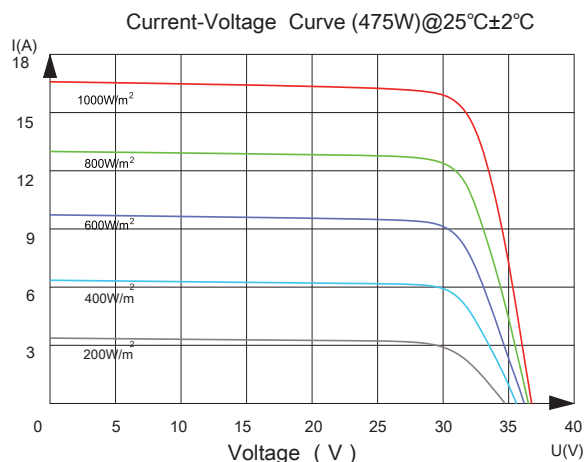
⁵The loading values will change according to different installing methods, please see installation manual for instructions.

Packaging

Container	40HQ
Pallet Dimensions (mm)	1800x1140x1250
Pieces per Pallet	36
Pieces per Container	936
Country of Manufacture	China

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-G48HBB-L-20251223.

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