

INFINITY RT

N-type

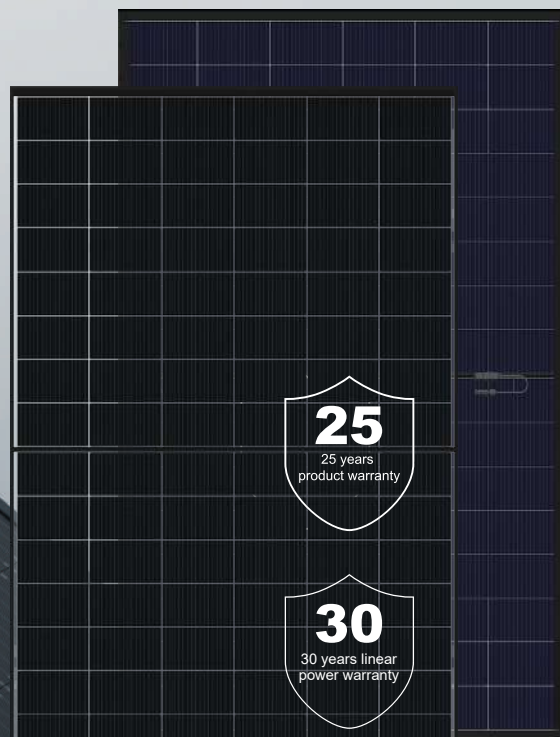
Bifacial Module with Double Glass

DMxxxG12RT-B48HBT

440~460W

23.0%
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.

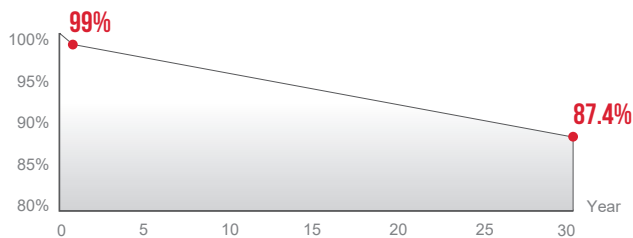
COMPANY MANAGEMENT SYSTEM

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



Performance warranty terms only apply to the front-side (STC) performance



Warranty partner

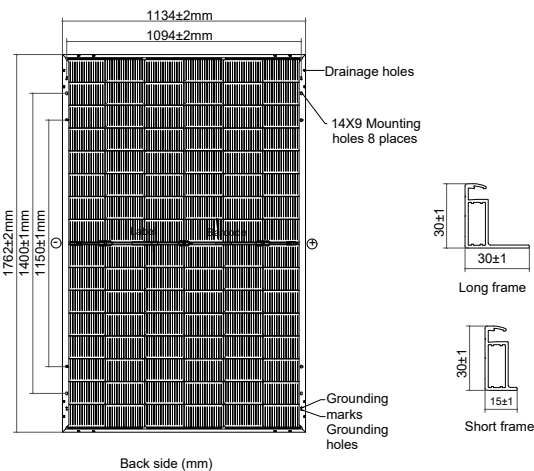


DMxxxG12RT-B48HBT



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 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



Electrical Specifications¹

Module Type	DM440G12RT-B48HBT		DM445G12RT-B48HBT		DM450G12RT-B48HBT		DM455G12RT-B48HBT		DM460G12RT-B48HBT	
Testing Condition	STC ²	BNP ³	STC ²	BNP ³	STC ²	BNP ³	STC	BNP ⁴	STC	BNP ⁴
Maximum Power (P _{max} /W)	440	486	445	492	450	497	455	503	460	508
Maximum Power Current (I _{mp} /A)	14.71	16.23	14.75	16.28	14.79	16.32	14.83	16.37	14.87	16.41
Maximum Power Voltage (V _{mp} /V)	29.91	29.95	30.17	30.21	30.43	30.47	30.69	30.73	30.95	30.99
Short-circuit Current (I _{sc} /A)	15.63	17.20	15.68	17.25	15.73	17.31	15.78	17.36	15.83	17.42
Open-circuit Voltage (V _{oc} /V)	35.76	35.76	35.90	35.90	36.04	36.04	36.18	36.18	36.32	36.32
Short-circuit Current @BSI ⁴ (A)	19.29		19.35		19.41		19.47		19.53	
Module Efficiency STC (%)	22.0		22.3		22.5		22.8		23.0	

¹ Measurements according to IEC 60904-3, Measurement tolerance: I_{sc}: ±4%, V_{oc}: ±3%, Test uncertainty for P_{max}: ±3%, Bifaciality: 80±5%, φI_{sc}=80±5%, φV_{oc}=100±3%, φP_{max}=80±5%

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

³ BNP⁴: E_f=1000W/m², E_r=135W/m², AM1.5, T_c=25 °C

⁴ BSI: E_f=1000W/m², E_r=300W/m², AM1.5, T_c=25 °C



BIFACIAL OUTPUT - REARSIDE POWER GAIN

10 %	P _{max} (STC)	484	490	495	501	506
20 %	P _{max} (STC)	528	534	540	546	552
30 %	P _{max} (STC)	572	579	585	592	598



Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of P _{max} (%/°C)	-0.29
Temperature Coefficient of V _{oc} (%/°C)	-0.25
Temperature Coefficient of I _{sc} (%/°C)	+0.048



Packaging

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



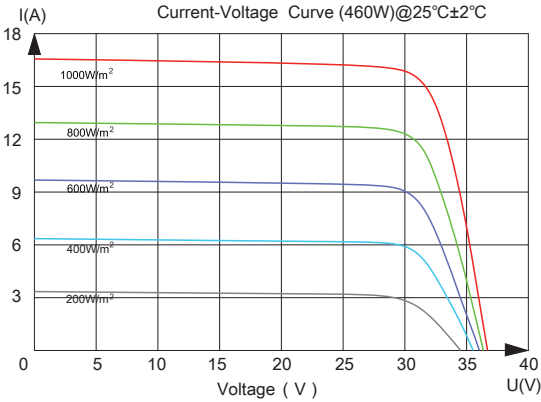
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Add: Hengdian Industrial Zone, Dongyang City Zhejiang Province, China 322118
Tel: 0086-579-8658-8826 E-mail: solar@dmegec.com.cn Website: www.dmegecsolar.com



Operating Conditions

Operating Temperature (T ₉₈) (°C)	-40 to +70
Maximum System Voltage (V)	1500 DC (IEC)
Overcurrent Protection Rating (A)	30
Power Output Sorting Tolerance (%)	0~3
Protection Class	Class II
Max. Test Load, Push/Pull (Pa)	+5400 / -3600
Max. Design Load, Push/Pull (Pa)	+3600 / -2400
Fire Rating Class	IEC Class C

⁴ The loading values will change according to different installing methods, please see installation manual for instructions.



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-B48HBT-20250903.

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