

INFINITY RT

N-type

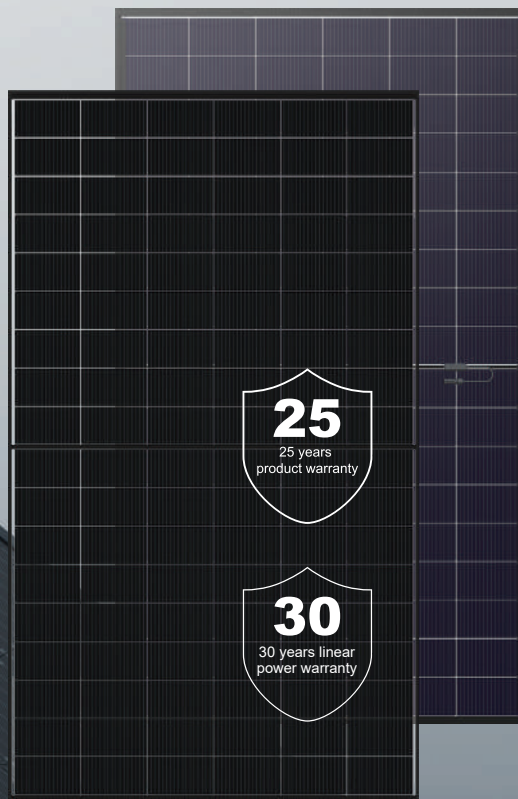
Bifacial Module with Double Glass

DMxxxG12RT-B54HBT

500~520W

23.2%
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.

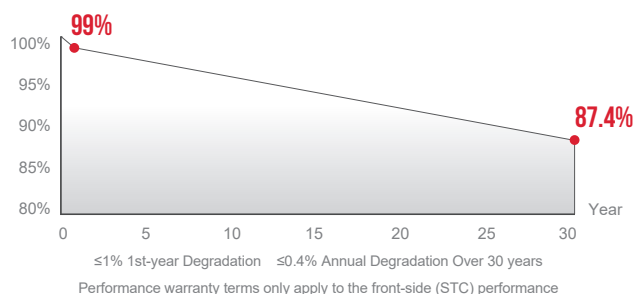
COMPANY MANAGEMENT SYSTEM

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

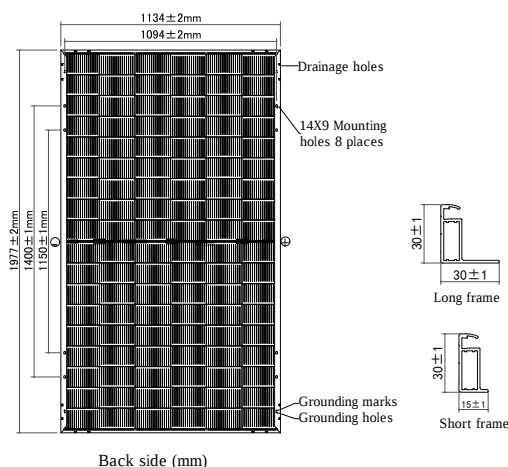


DMxxxG12RT-B54HBT



Module Specification

Cell Type	N type Mono-crystalline, 108(6×18)
Dimensions (mm)	1977×1134×30
Weight (kg)	27.1
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: 1200 mm(+)/ 1200 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	DM500G12RT-B54HBT		DM505G12RT-B54HBT		DM510G12RT-B54HBT		DM515G12RT-B54HBT		DM520G12RT-B54HBT	
Testing Condition	STC ²	BNPI ³	STC ²	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power (P _{max} /W)	500	553	505	559	510	564	515	570	520	575
Maximum Power Current (I _{mp} /A)	14.76	16.29	14.80	16.33	14.84	16.38	14.88	16.42	14.92	16.47
Maximum Power Voltage (V _{mp} /V)	33.89	33.93	34.13	34.17	34.37	34.41	34.61	34.65	34.85	34.89
Short-circuit Current (I _{sc} /A)	15.68	17.25	15.73	17.31	15.78	17.36	15.83	17.42	15.88	17.47
Open-circuit Voltage (V _{oc} /V)	40.36	40.36	40.49	40.49	40.62	40.62	40.75	40.75	40.88	40.88
Short-circuit Current @BSI ⁴ (A)	19.35		19.41		19.47		19.53		19.60	
Module Efficiency STC (%)	22.3		22.5		22.7		23.0		23.2	

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 BNPI: 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 - REAR SIDE POWER GAIN

10 %	P _{max} (STC)	550	556	561	567	572
20 %	P _{max} (STC)	600	606	612	618	624
30 %	P _{max} (STC)	650	657	663	670	676



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

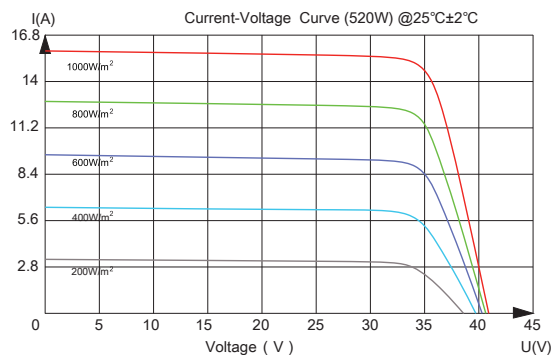
Container	40HQ
Pallet Dimensions (mm)	1985x1140x1250
Pieces per Pallet	36
Pieces per Container	864
Country of Manufacture	China



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.



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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-B54HBT Plus-20250903.

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