

iNFINITY RT

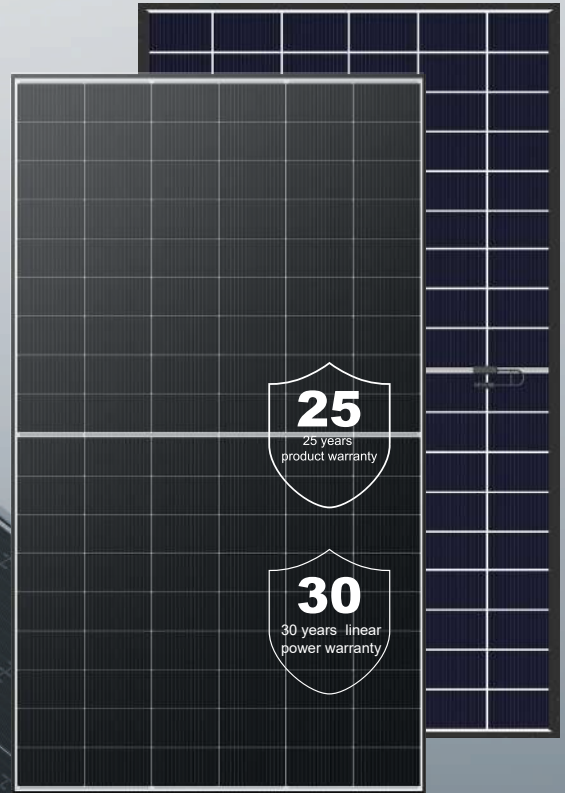
N-type
Bifacial Module with Double Glass

DMxxxG12RT-B54HBW

505~525W

23.4%
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.



- Higher Module Efficiency**
Increased energy yield due to optimized material use.
- 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.

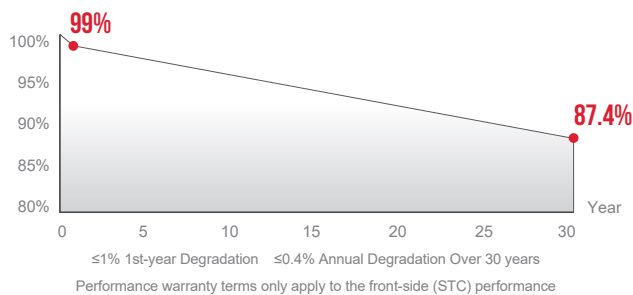
COMPANY MANAGEMENT SYSTEM

- 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

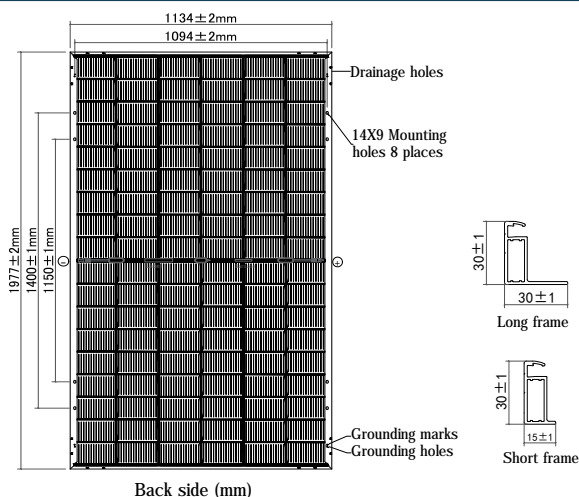
POWER WARRANTY



DMxxxG12RT-B54HBW

Module Specification

Cell Type	N type Mono-crystalline, 108(6×18)
Dimensions (mm)	1977×1134×30
Weight (kg)	27.1
Front Cover	2mm heat strengthened glass, Anti-reflective coating
Rear Cover	2mm heat strengthened glass
Junction Box	3Diodes, IP68 according to IEC 62790
Output Cables (Including Connector)	4mm ² /Portrait: 300mm (+)/200mm(-) Landscape: 1200mm(+)/1200mm(-) 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	DM505G12RT-B54HBW		DM510G12RT-B54HBW		DM515G12RT-B54HBW		DM520G12RT-B54HBW		DM525G12RT-B54HBW	
	STC ²	BNPI ³	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power (P _{max} /W)	505	559	510	564	515	570	520	575	525	581
Maximum Power Current (I _{mp} /A)	14.80	16.33	14.84	16.38	14.88	16.42	14.92	16.47	14.96	16.51
Maximum Power Voltage (V _{mp} /V)	34.13	34.17	34.37	34.41	34.61	34.65	34.85	34.89	35.09	35.13
Short-circuit Current (I _{sc} /A)	15.73	17.31	15.78	17.36	15.83	17.42	15.88	17.47	15.93	17.53
Open-circuit Voltage (V _{oc} /V)	40.49	40.49	40.62	40.62	40.75	40.75	40.88	40.88	41.01	41.01
Short-circuit Current @BSI ⁴ (A)	19.41		19.47		19.53		19.60		19.66	
Module Efficiency STC (%)	22.5		22.8		23.0		23.2		23.4	

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 1000W/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)	556	561	567	572	578
20 % P _{max} (STC)	606	612	618	624	630
30 % P _{max} (STC)	657	663	670	676	683

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

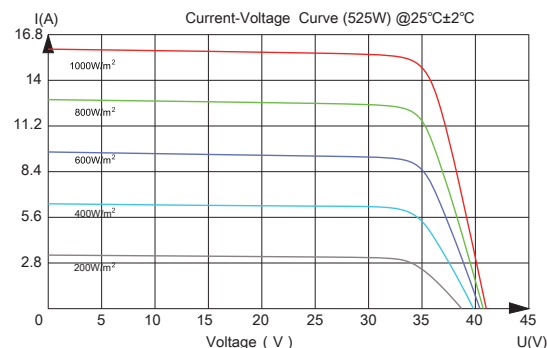


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Operating Conditions

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) ⁵	+5400 / -3600
Max. Design Load, Push/Pull (Pa) ⁵	+3600 / -2400
Fire Rating Class	Class C according to UL790

⁵ 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-B54HBW Plus-20250903.

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