

iNFINITY RT

N-type

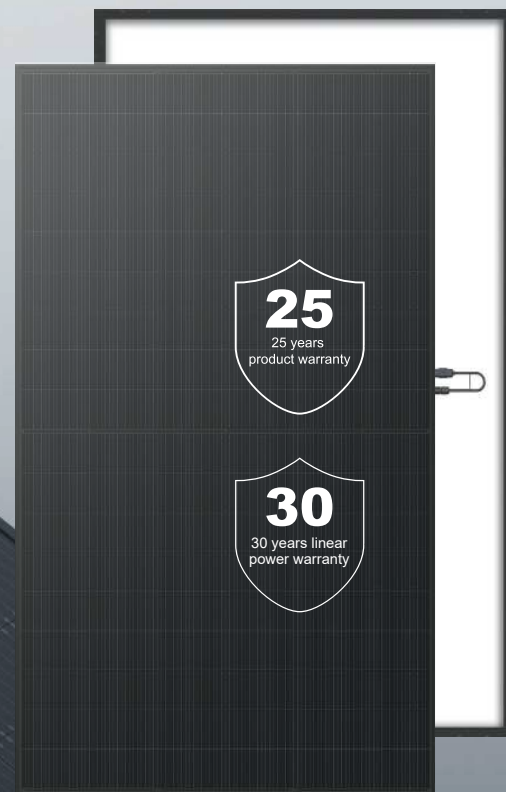
Mono facial Module with Double Glass

DMxxxG12RT-G54HBB

510~530W

23.6%
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
Ammonia Corrosion (IEC 62716)
Salt Mist Corrosion (IEC 61701)
LeTID (IEC TS 63342)
Dust & Sand (IEC 60068)



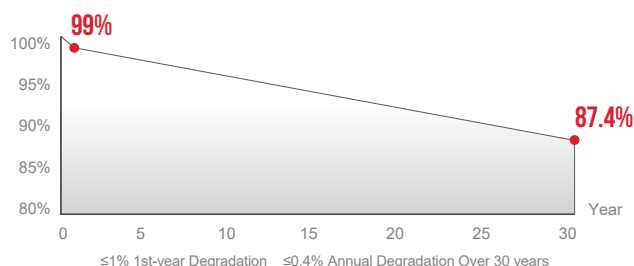
SolarPower
Europe



Warranty partner

Munich RE

POWER WARRANTY

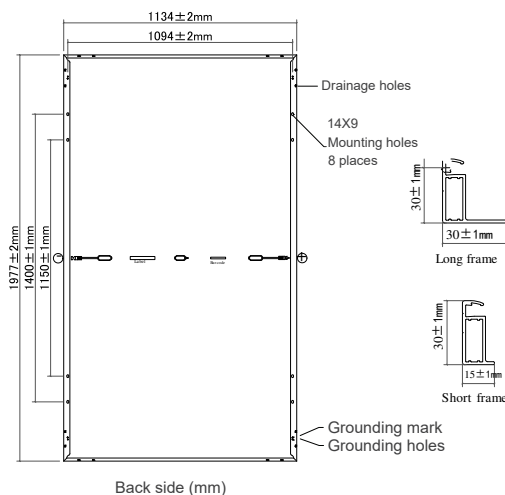


DMxxxG12RT-G54HBB



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	PV-ZH202B or MC4-EVO 2A (1500V)



Electrical Specifications¹

Module Type	DM510G12RT-G54HBB		DM515G12RT-G54HBB		DM520G12RT-G54HBB		DM525G12RT-G54HBB		DM530G12RT-G54HBB	
Testing Condition	STC ²	NMOT ³	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P _{max} /W)	510	389	515	393	520	396	525	400	530	404
Maximum Power Current (I _{mp} /A)	14.84	12.06	14.88	12.09	14.92	12.12	14.96	12.16	15.00	12.19
Maximum Power Voltage (V _{mp} /V)	34.37	32.25	34.61	32.47	34.85	32.70	35.09	32.92	35.33	33.15
Short-circuit Current (I _{sc} /A)	15.78	12.72	15.83	12.76	15.88	12.80	15.93	12.84	15.98	12.88
Open-circuit Voltage (V _{oc} /V)	40.62	39.09	40.75	39.22	40.88	39.34	41.01	39.47	41.14	39.59
Module Efficiency STC (%)	22.7		22.9		23.2		23.4		23.6	

¹ Measurements according to IEC 60904-3, Measurement tolerance: I_{sc}: ±4%, V_{oc}: ±3%, Test uncertainty for P_{max}: ±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 (°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	HW3*
Fire class	IEC-class C

*Reference diameter of ice balls-VKF 30 mm, storage temperature of ice balls -20 °C



Packaging

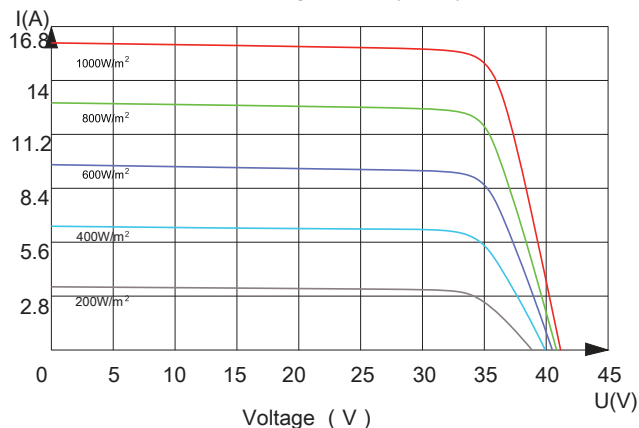
Container	40HQ
Pallet Dimensions (mm)	1985x1140x1250
Pieces per Pallet	36
Pieces per Container	864



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

Current-Voltage Curve (530W)



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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 Plus-20260413.

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