DMEGC SOLAR

Residential / Commercial

TIER 1 Bloomberg NEW ENERGY FINANCE

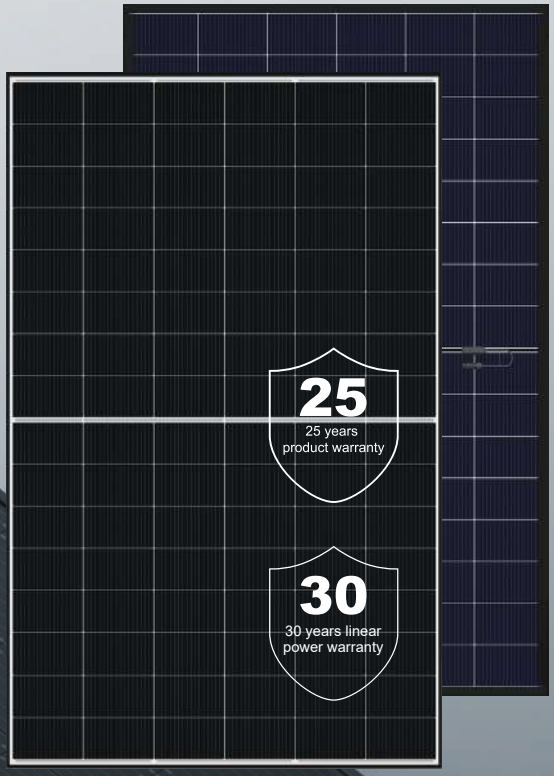
iNFINITY RT

N-type

Bifacial Module with Double Glass

DMxxxG12RT-B48HBW

455~475W



23.8%
Max. Efficiency

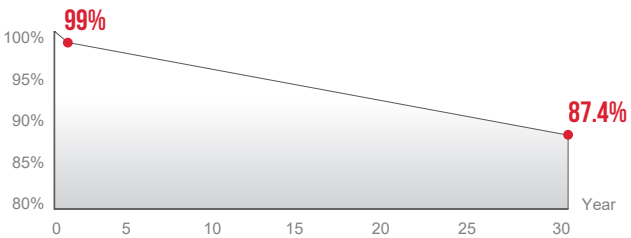
- **Leading manufacturing**
  40+ years experience in high-tech manufacturing.
- **High environmental, social and governance responsibility (ESG)**
  100% green production, transparent supply chain and excellent ESG rating in the solar industry.

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.

POWER WARRANTY



≤1% 1st-year Degradation ≤0.4% Annual Degradation Over 30 years

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

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

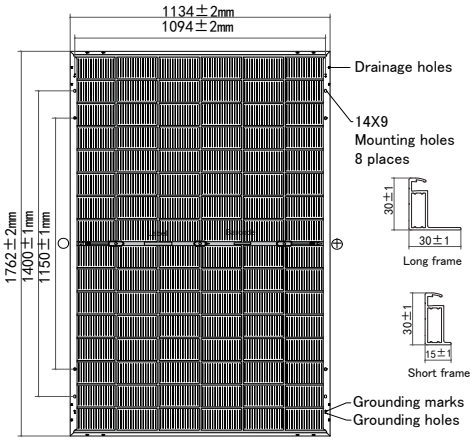
Warranty partner
Munich RE

A member of Hengdian Group

DMxxxG12RT-B48HBW

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 mm²/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(mm)

Electrical Specifications[1]

Module Type	DM455G12RT-B48HBW		DM460G12RT-B48HBW		DM465G12RT-B48HBW		DM470G12RT-B48HBW		DM475G12RT-B48HBW	
Testing Condition	STC[2]	BNPI[3]	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power (Pmax/W)	455	503	460	508	465	514	470	519	475	525
Maximum Power Current (Imp/A)	14.83	16.37	14.87	16.41	14.91	16.54	14.95	16.50	14.99	16.54
Maximum Power Voltage (Vmp/V)	30.69	30.73	30.95	30.99	31.21	31.25	31.47	31.51	31.68	31.72
Short-circuit Current (Isc/A)	15.78	17.36	15.83	17.42	15.88	17.47	15.93	17.53	15.98	17.58
Open-circuit Voltage (Voc/V)	36.18	36.18	36.32	36.32	36.46	36.46	36.60	36.60	36.74	36.74
Short-circuit Current @BSI[4] (A)	19.47		19.53		19.60		19.66		19.72	
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%, Bifaciality: 80±5%, φIsc=80%±5%,φVoc=100%±3%,φPmax=80%±5%

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

[3] BNPI: Ef=1000W/m2,Er=135W/m2,AM1.5,Tc=25℃

[4] BSI: Ef=1000W/m2, Er=300W/m2, AM1.5,Tc=25℃

BIFACIAL OUTPUT - REARSIDE POWER GAIN

10 %	Pmax (STC)	501	506	512	517	523
20 %	Pmax (STC)	546	552	558	564	570
30 %	Pmax (STC)	592	598	605	611	618

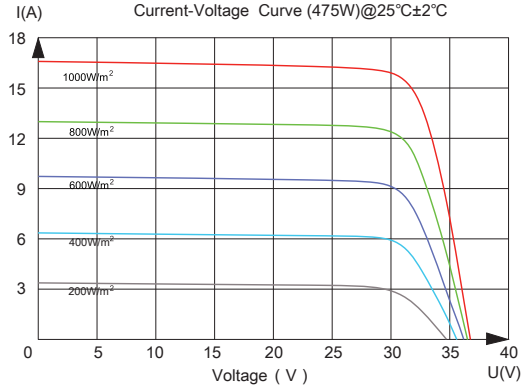
Operating Conditions

Operating Temperature (T98) (°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.

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



Packaging

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

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