

INFINITY RT

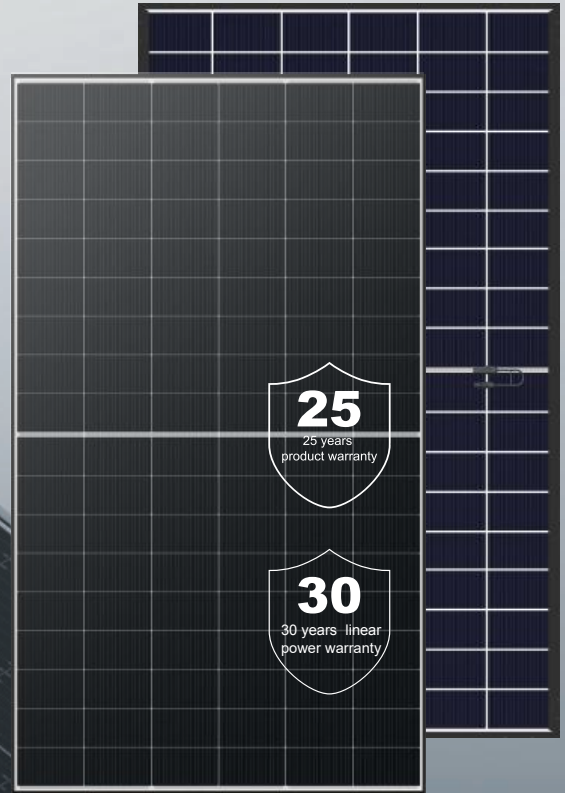
N-type
Bifacial Module with Double Glass

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

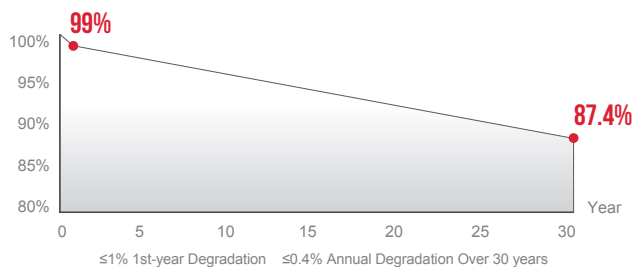
Protection against harsh environmental conditions
Certified by TÜV Rheinland.



Green Product

Focus on circular economy - low carbon footprint,
PFAS-free and recyclable components.

POWER WARRANTY



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
Extended-Stress (IEC TS 63209)
Ammonia Corrosion (IEC 62716)
Salt Mist Corrosion (IEC 61701)
LeTID (IEC TS 63342)
Dust & Sand (IEC 60068)



SolarPower
Europe



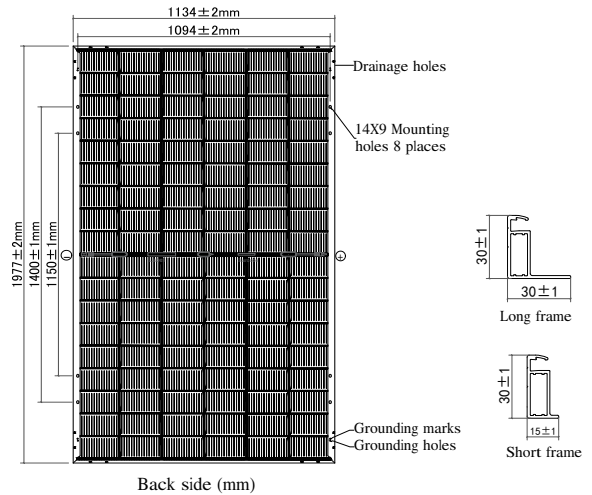
Warranty partner

Munich RE

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



Electrical Specifications¹

Module Type	DM505G12RT-B54HBW		DM510G12RT-B54HBW		DM515G12RT-B54HBW		DM520G12RT-B54HBW		DM525G12RT-B54HBW	
	STC ²	NMOT ³	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P _{max} /W)	505	385	510	389	515	393	520	396	525	400
Maximum Power Current (I _{mp} /A)	14.80	12.03	14.84	12.06	14.88	12.09	14.92	12.12	14.96	12.16
Maximum Power Voltage (V _{mp} /V)	34.13	32.02	34.37	32.25	34.61	32.47	34.85	32.70	35.09	32.92
Short-circuit Current (I _{sc} /A)	15.73	12.68	15.78	12.72	15.83	12.76	15.88	12.80	15.93	12.84
Open-circuit Voltage (V _{oc} /V)	40.49	38.97	40.62	39.09	40.75	39.22	40.88	39.34	41.01	39.47
Module Efficiency STC (%)	22.5		22.7		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%
² STC (Standard Test Condition): Radiation 1000W/m², Module temperature 25°C, AM=1.5
³ NMOT: Radiation 800W/m², Ambient temperature 20°C, AM=1.5, Wind Speed 1m/s

Electrical Specifications¹(BNPI²)

Nameplate Power (W)	505	510	515	520	525
Maximum Power (P _{max} /W)	559	564	570	575	581
Maximum Power Current (I _{mp} /A)	16.33	16.38	16.42	16.47	16.51
Maximum Power Voltage (V _{mp} /V)	34.17	34.41	34.65	34.89	35.13
Short-circuit Current (I _{sc} /A)	17.31	17.36	17.42	17.47	17.53
Open-circuit Voltage (V _{oc} /V)	40.49	40.62	40.75	40.88	41.01

¹ Measurements according to IEC 60904-3, Measurement tolerance: I_{sc}: ±4%, V_{oc}: ±3%, Test uncertainty for P_{max}: ±3%
² BNPI: Front radiation 1000W/m², Rear radiation 135W/m², Module temperature 25°C, AM=1.5

Temperature Characteristics

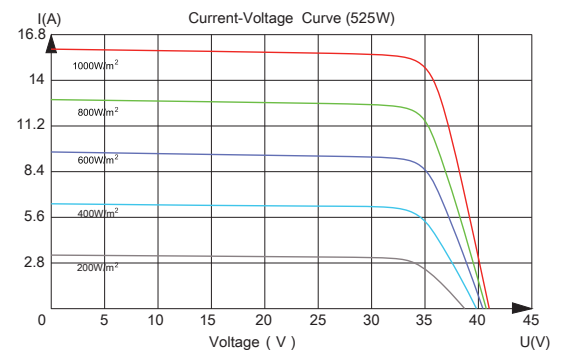
Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of P _{max} (%/°C)	-0.29
Temperature Coefficient of V _{oc} (%/°C)	-0.25
Temperature Coefficient of I _{sc} (%/°C)	+0.048

Packaging

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

Operating Conditions

Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1500 DC(IEC)
Overcurrent Protection Rating (A)	30
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



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Axpert VM II Premium Off-Grid Inverter



Axpert VM II Premium 1.2K/
Axpert VM II Premium 2.5K

Axpert VM II Premium 3K

Axpert VM II Premium 5K

- Pure sine wave solar inverter
- Reserved communication port for BMS
- Wide PV input range
- Battery independent design
- Maximum charging current 100A
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dust kit

Axpert VM II Premium Off-Grid Inverter Selection Guide

MODEL	Axpert VM II Premium 1.2K	Axpert VM II Premium 2.5K	Axpert VM II Premium 3K	Axpert VM II Premium 5K
Rated Power	1200VA/1200W	2500VA/2500W	3000VA/3000W	5000VA/5000W
INPUT				
Voltage	230 VAC			
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%			
Surge Power	2400VA	5000VA	6000VA	10000VA
Efficiency (Peak)	93%			
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
BATTERY				
Battery Voltage	12 VDC	24 VDC	48 VDC	
Floating Charge Voltage	13.5 VDC	27 VDC	54 VDC	
Overcharge Protection	16 VDC	32 VDC	63 VDC	
SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
Maximum PV Array Open Circuit Voltage	350 VDC	450 VDC	500 VDC	
Maximum PV Array Power	2000W	3000W	5000W	
MPP Range @ Operating Voltage	60 ~ 300 VDC	60 ~ 400 VDC	120 ~ 450VDC	
Maximum Solar Charge Current	100 A		100A	
Maximum AC Charge Current	80A		100A	
Maximum Charge Current	100A		100A	
PHYSICAL				
Dimension, D x W x H (mm)	90 x 288 x 357		110 x 288 x 390	120 x 300 x 440
Net Weight (kgs)	6.5	7.0	7.2	10
Communication Interface	RS232/RS485, optional WiFi			
ENVIRONMENT				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	-10°C to 50°C			
Storage Temperature	-15°C to 60°C			

Product specifications are subject to change without further notice.

Battery Storage

Li-7.5e / Li-15e



Features



Up to 35 in Parallel
No extra device needed; scalable for larger systems.



Flexible Installation
Rack-mounted, wall-mounted, or floor-standing.



Remote Maintenance
Supports remote firmware upgrade and diagnostics.



Value-Driven Design
Affordable solution for residential and telecom energy storage.



0.5C Charge/Discharge Rate
Efficient energy transfer with 140A charge/discharge current.



6000 Cycle Life
Long-lasting performance with 5-year warranty.



Wide Voltage Options
25.6V & 51.2V available, perfect for lead-acid battery replacement.



Smart BMS Protection
Multi-level safety: overcharge, over-discharge, short circuit.

Model	Li-7.5e	Li-15e
Cell Type	LFP	
Rated Energy	7.5kWh	15kWh
Rated Capacity	300 Ah	
Rated Voltage	25.6V	51.2V
Charge / Discharge Current	140A / 140A	
Parallel	Up to 35 units parallelable w/o extra device needed, slave battery drops offline or come back alive does not affect system running	
IP Level	IP20	
Dimension (W × H × D)	463 × 452 × 225 mm 18.2 × 17.8 × 8.9 in	706 × 452 × 225 mm 27.8 × 17.8 × 8.9 in
Weight	53.5 kg / 117.9 lbs	98 kg / 216.1 lbs
Communication	CAN / RS485	
Humidity	5% ~ 85%RH (No condensation)	
Work Temperature	-20 ~ +55°C	
Storage Temperature	-10 ~ +35°C	
Remote Maintenance	Flexible remote upgrade, Original firmware backup to prevent upgrade failure	
Warranty *	5 years / 6000 cycles	
Protection	Over charge/discharge/current/voltage/temperature protection Short circuit protection, Reverse connection protection Charge balance, Low SOC protection	

@25°C, 90% DOD. 0.5C testing condition