



Residential / Commercial



N-Type

Bifacial Module with Double Glass

Type: DMxxxM10RT-B54HSW/HBW



Power Range: 440 - 455 W

Max. Efficiency : 22.8 %



Bifacial Module Application

Up to 25 % higher electricity yields due to active cell technology in bifacial glass/glass modules on both sides.



Better Performance

Our modules perform better on sunny and hot days thanks to its optimized temperature coefficient.



Excellent Low Light Performance

Our modules can also provide higher power output under low light conditions, such as sunset, cloudy, or dawn.



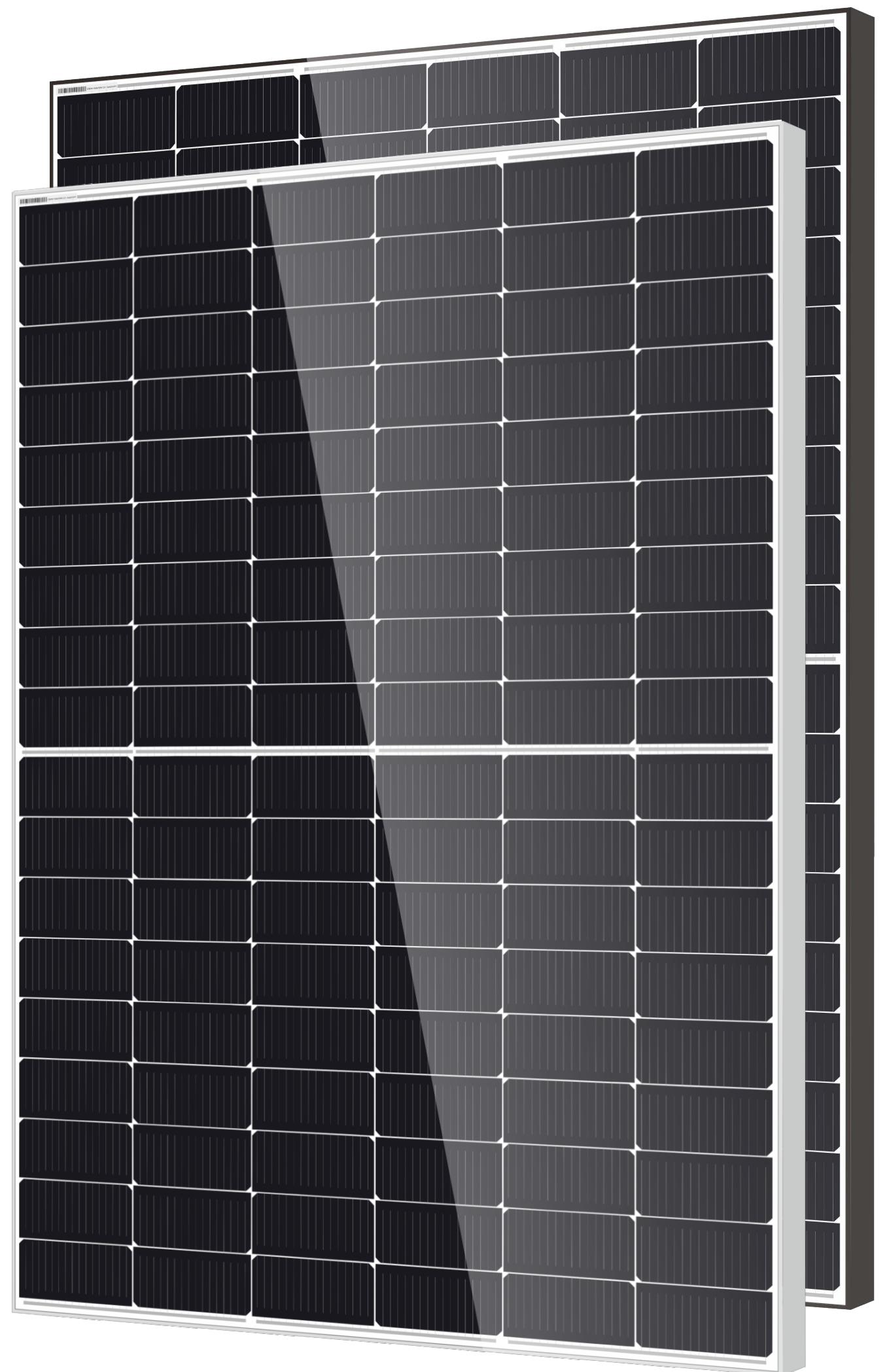
Excellent Quality

More than 40 years' experience of manufacturing and intensive quality tests above the IEC standard ensures reliable modules and a secured investment.



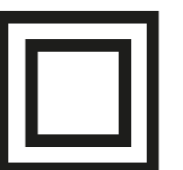
Assumption of Environmental, Social and Governance Responsibility (ESG)

DMEGC stands for his responsibility. Production is certified according to SA 8000 (ILO standards).



Certifications

- 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

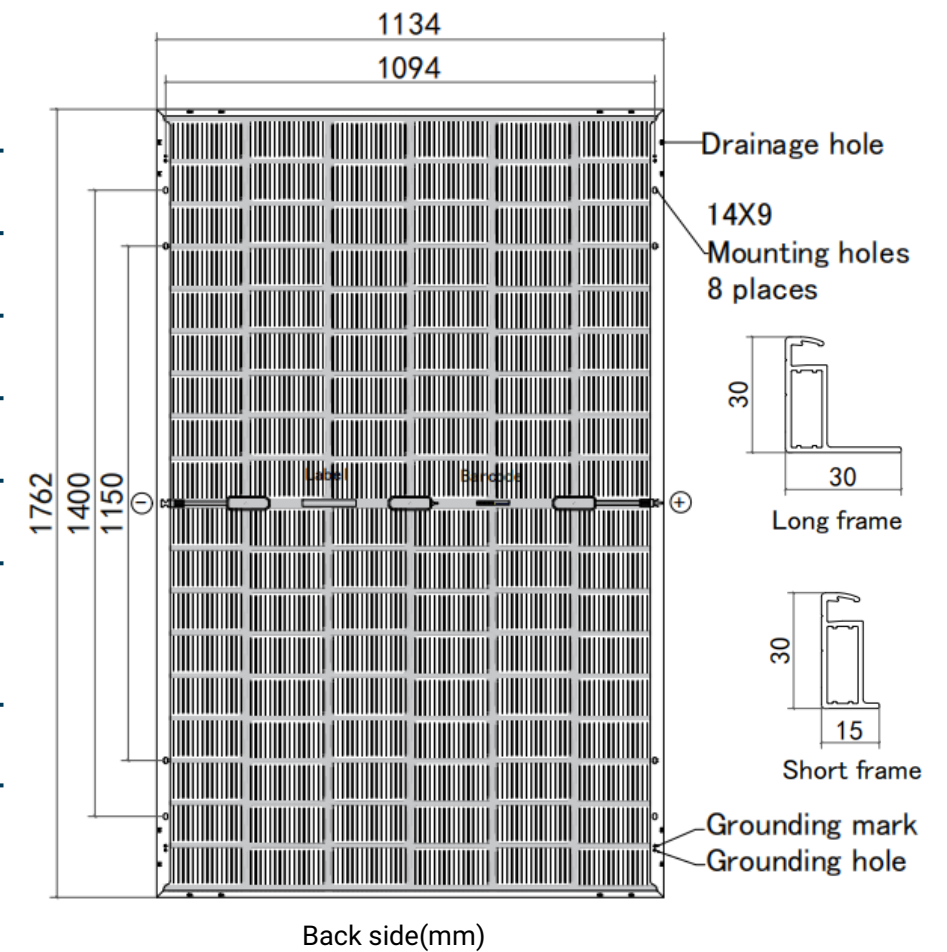


DMxxxM10RT-B54HSW/HBW



Module Specification

Cell Type	N -type Mono-crystalline , 108 (6x18)
Dimensions (mm)	1762 x 1134 x 30
Weight (kg)	24.5
Front Cover	2 mm heat strengthened glass with anti -reflective coating
Rear Cover	2 mm heat strengthened glass
Junction Box	3 Diodes, IP68 according to IEC 62790
Cables	4mm ² /Portrait: 350mm (+)/250mm(-) Landscape: 1100mm(+)/1100mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4-EVO 2A (1500V)



Electrical Specifications¹

Module Type	DM440M10RT-B54HSW/HBW		DM445M10RT-B54HSW/HBW		DM450M10RT-B54HSW/HBW		DM455M10RT-B54HSW/HBW	
	STC ²	NMOT ³	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	440	331	445	335	450	339	455	343
Maximum Power Current (Imp/A)	13.40	10.83	13.47	10.89	13.54	10.95	13.61	11.00
Maximum Power Voltage (Vmp/V)	32.84	30.67	33.04	30.86	33.24	31.05	33.44	31.23
Short-circuit Current (Isc/A)	13.90	11.19	13.97	11.25	14.04	11.31	14.11	11.36
Open-circuit Voltage (Voc/V)	39.40	37.32	39.60	37.51	39.80	37.70	40.00	37.89
Module Efficiency STC (%)	22.0		22.3		22.5		22.8	

¹ Measurements according to IEC 60904-3, Measurement tolerance: ISC: ±4%, VOC: ± 3%, Bifaciality: 80% ± 5%

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

BIFACIAL OUTPUT - REAR SIDE POWER GAIN

Gain (%)	Parameter	DM440	DM445	DM450	DM455
10 %	Pmax (STC)	484	490	495	501
20 %	Pmax (STC)	528	534	540	546
30 %	Pmax (STC)	572	579	585	592

Certifications and Warranty

Certifications	IEC 61215, IEC 61730
	Ammonia Corrosion Test: IEC 62716
	Salt Mist Corrosion Test: IEC 61701
	PID (IEC TS 62804); LeTID (IEC TS 63342)
WEEE Registration No.	Dust & Sand (IEC 60068)
	DE 50188598
Product Warranty	25 years
Peak Power Warranty	30 years linear warranty

1.) First year: min. 99 %. 2.) From the 2nd year: Max. 0.4 % degradation annually. 3.) Min. 87.4 % in the 30th year.

Operating conditions

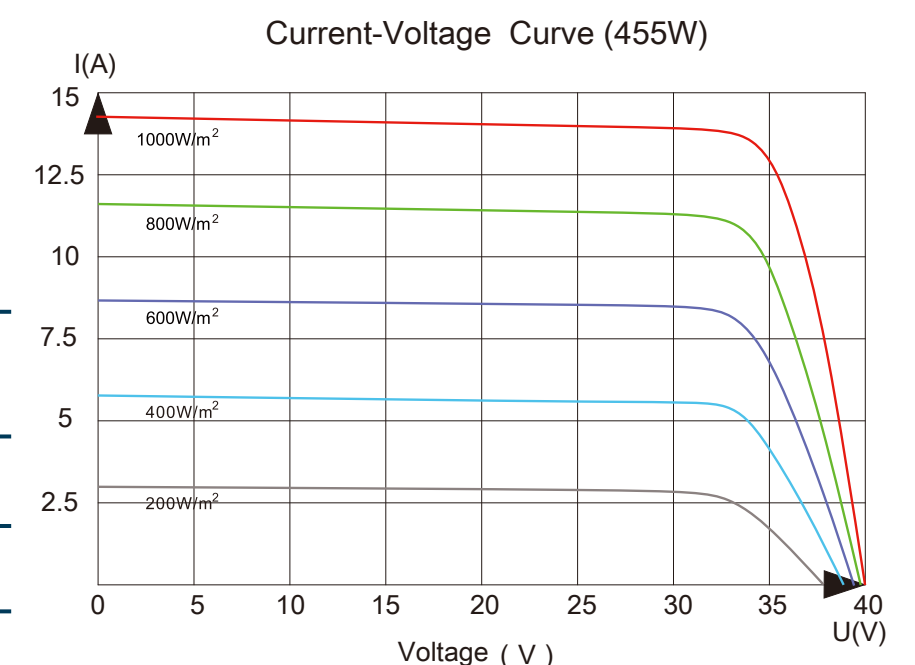
Operating Temperature (°C)	-40 to +85
Maximum System Voltage(V)	1500 DC (IEC)
Overcurrent protection rating (A)	30
Power Performance Tolerance (%)	0 / +3
Protection class	II
Max. Test Load, Push/Pull (Pa)	Snow 5400 / Wind 2400
Max. Design Load, Push/Pull (Pa)	3600 / 1600

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	40' HQ
Pallet Dimensions(mm)	1800 × 1140 × 1250
Pieces per Pallet	36
Pieces per Container	936



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.



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All information in this data sheet corresponds to EN 50380. Changes and errors excepted.

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