



Residential / Commercial



N-Type

Bifacial Module with Double Glass

Type: DMxxxM10RT-B60HBB

Power Range: 490 - 505 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.



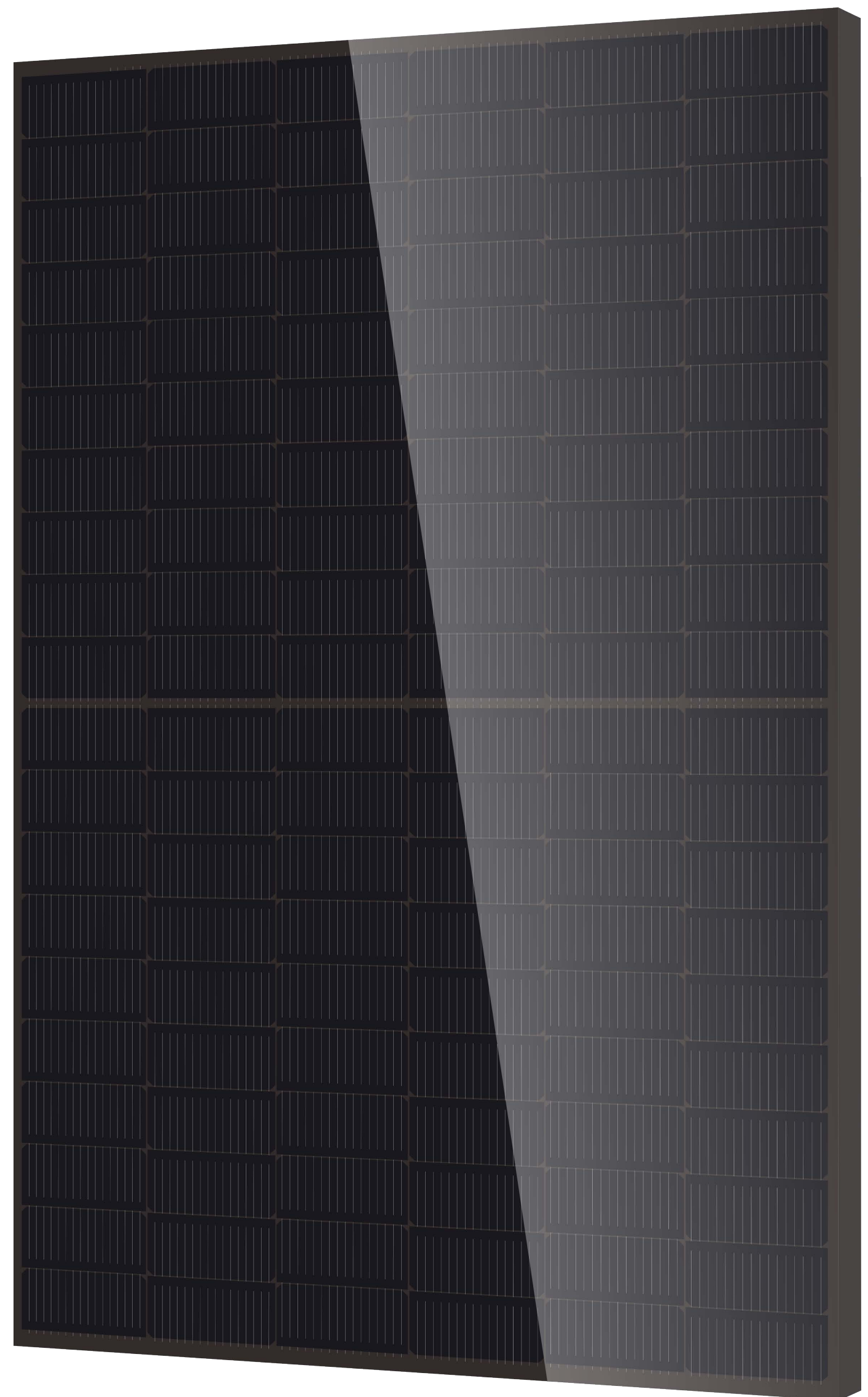
Excellent Quality

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



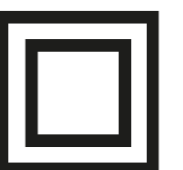
Assumption of Environmental, Social and Governance Responsibility (ESG)

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



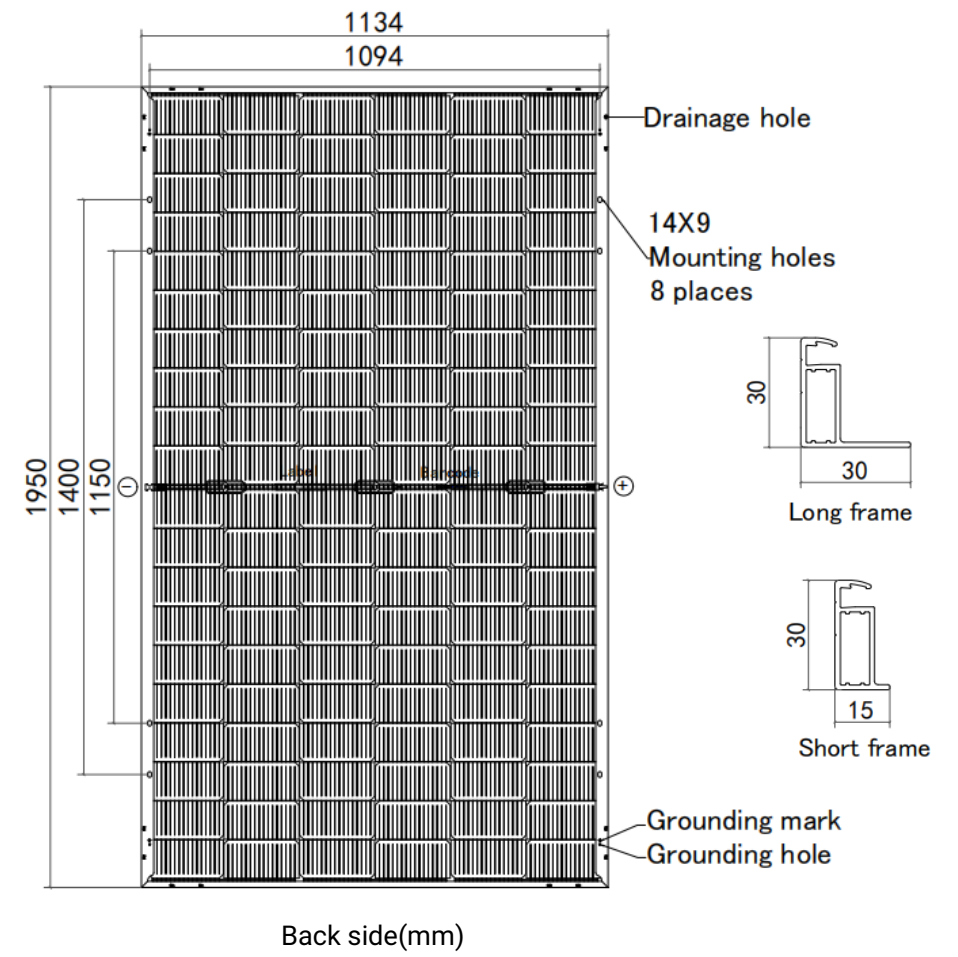
Certifications

- 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



Module Specification

Cell Type	N-type Mono-crystalline , 120 (6x20)
Dimensions (mm)	1950 x 1134 x 30
Weight (kg)	26.8
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: 1300mm(+)/1300mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4-EVO 2A (1500V)



Electrical Specifications¹

Module Type	DM490M10RT-B60HBB		DM495M10RT-B60HBB		DM500M10RT-B60HBB		DM505M10RT-B60HBB	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	490	369	495	373	500	376	505	380
Maximum Power Current (Imp/A)	13.44	10.85	13.50	10.90	13.56	10.95	13.62	10.99
Maximum Power Voltage (Vmp/V)	36.47	34.07	36.67	34.25	36.87	34.44	37.07	34.63
Short-circuit Current (Isc/A)	13.92	11.21	13.98	11.26	14.04	11.31	14.10	11.35
Open-circuit Voltage (Voc/V)	43.82	41.47	44.02	41.65	44.22	41.84	44.42	42.03
Module Efficiency STC (%)	22.2		22.4		22.6		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	DM490	DM495	DM500	DM505
10 %	Pmax (STC)	539	545	550	556
20 %	Pmax (STC)	588	594	600	606
30 %	Pmax (STC)	637	644	650	657

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) Dust & Sand (IEC 60068)
WEEE Registration No.	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

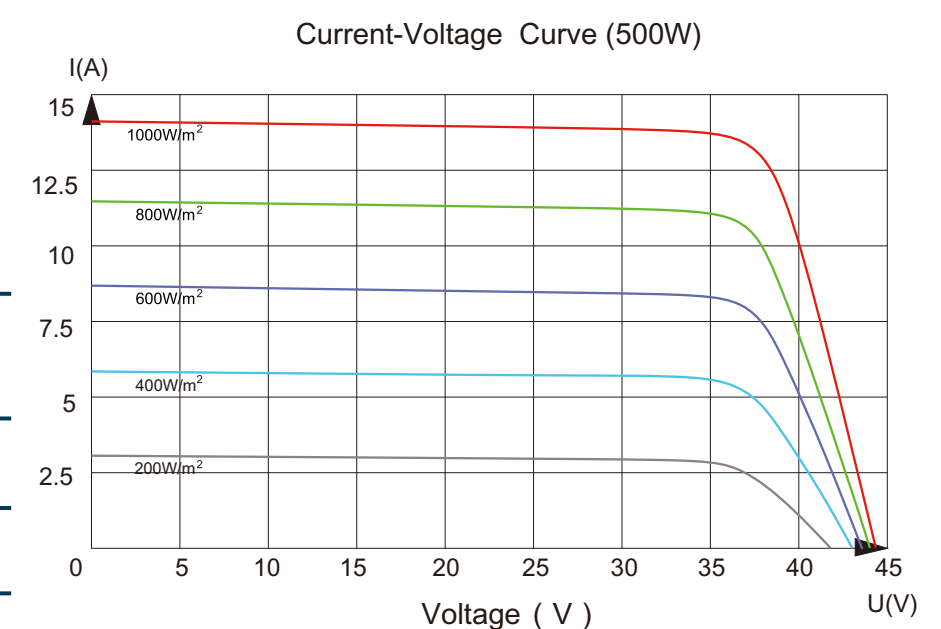
Operating Temperature (°C)	-40 to +85
Maximum System Voltage(V)	1500 DC (IEC)
Overcurrent protection rating (A)	30
Power Performance Tolerance (%)	0 / +3
Protection class	II
Max. Test Load, Push/Pull (Pa)	Snow 5400 / Wind 2400
Max. Design Load, Push/Pull (Pa)	3600 / 1600

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)	2000 × 1140 × 1250
Pieces per Pallet	36
Pieces per Container	864



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.