Residential / Commercial

N-Type

Bifacial Module with Double Glass

Type: DMxxxM10RT-B60HBT

Power Range: 485 - 500 W

Max. Efficiency : 22.6%

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

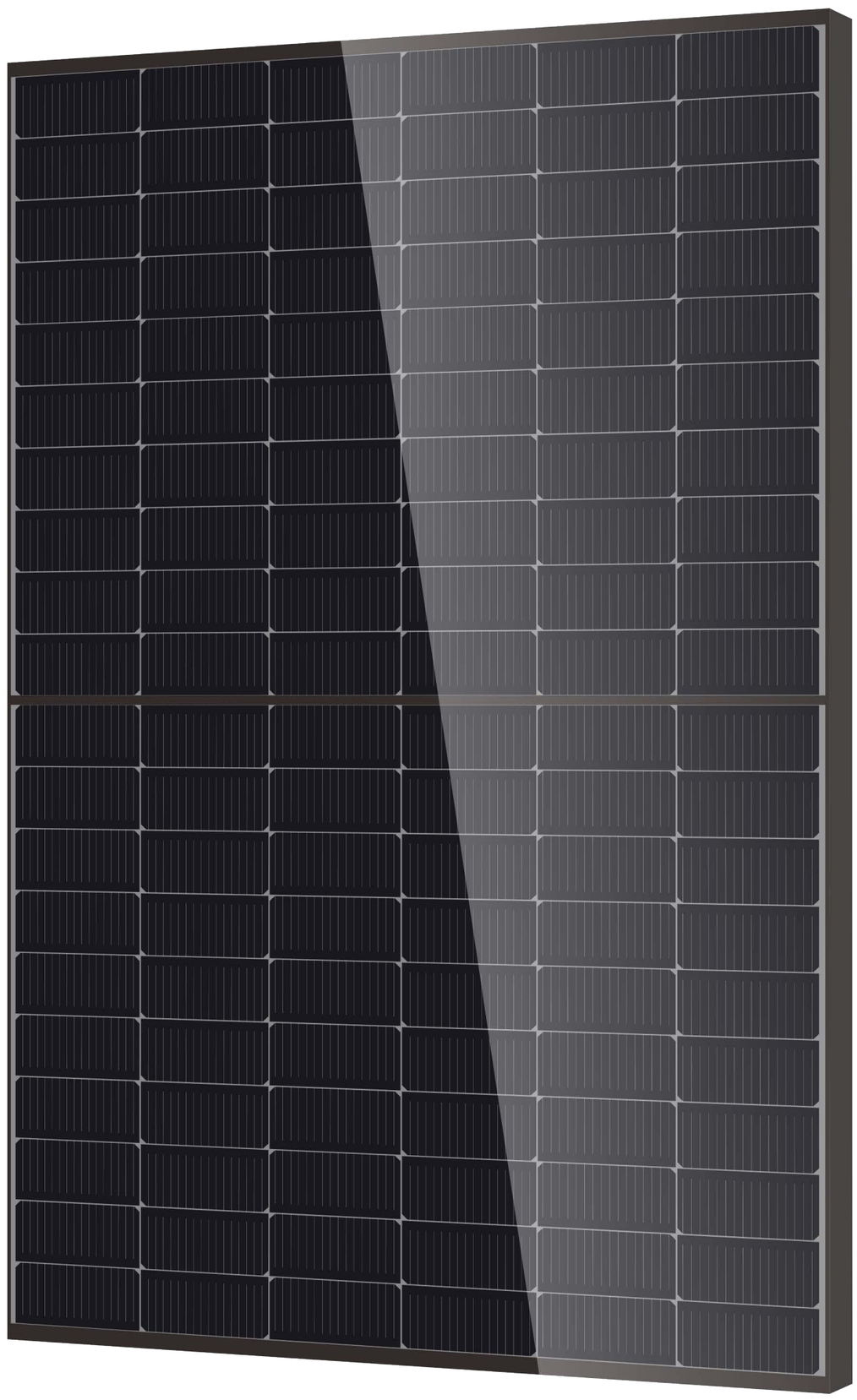
Our modules can also provide higher power output under low light conditions, such as sunset, cloudy, or dawn.

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

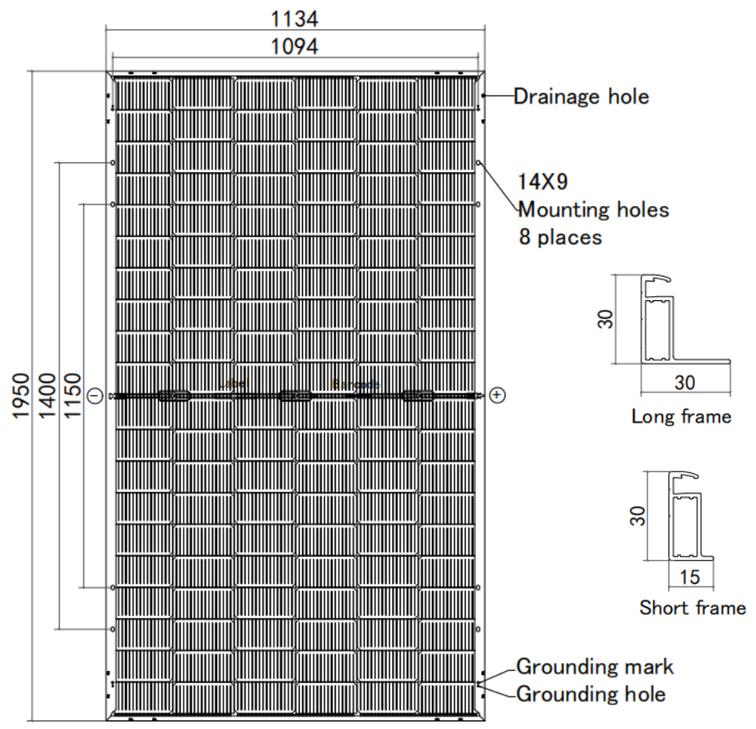
DE 50188598

A member of Hengdian Group

DMxxxM10RT-B60HBT

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	4mm²/Portrait: 350mm (+)/250mm(-) Landscape: 1300mm(+)/1300mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4-EVO 2A (1500V)



Electrical Specifications[1]

Module Type	DM485M10RT-B60HBT		DM490M10RT-B60HBT		DM495M10RT-B60HBT		DM500M10RT-B60HBT	
Testing Condition	STC[2]	NMOT[3]	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	485	365	490	369	495	373	500	376
Maximum Power Current (Imp/A)	13.38	10.80	13.44	10.85	13.50	10.90	13.56	10.95
Maximum Power Voltage (Vmp/V)	36.27	33.88	36.47	34.07	36.67	34.25	36.87	34.44
Short-circuit Current (Isc/A)	13.86	11.16	13.92	11.21	13.98	11.26	14.04	11.31
Open-circuit Voltage (Voc/V)	43.62	41.28	43.82	41.47	44.02	41.65	44.22	41.84
Module Efficiency STC (%)	**21.9**		**22.2**		**22.4**		**22.6**	

[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℃, AM = 1.5
[3] NMOT: Radiation 800 W/m², Ambient temperature 20℃, AM = 1.5, Wind Speed 1 m/s

BIFACIAL OUTPUT - REARSIDE POWER GAIN

10 %	Pmax (STC)	534	539	545	550
20 %	Pmax (STC)	582	588	594	600
30 %	Pmax (STC)	631	637	644	650

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 (℃)	-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

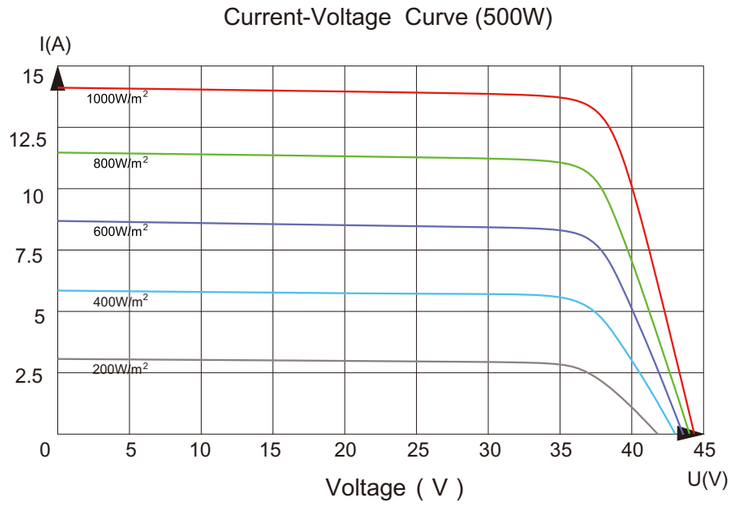
Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2℃
Temperature Coefficient of Pmax (%/ ℃)	-0.29
Temperature Coefficient of Voc (%/ ℃)	-0.25
Temperature Coefficient of Isc (%/ ℃)	+0.048

Packaging

Container	40' HQ
Pallet Dimensions(mm)	2000 × 1140 × 1250
Pieces per Pallet	36
Pieces per Container	864

Current-Voltage Curve (500W)



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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