Best Choice for Residential

DMEGC SOLAR

N-Type

MONO-FACIAL MODULE

Type: DMxxxM10RT-54HBB

Power Range: 435 - 450 W

Max. Efficiency : 22.5 %

PRODUCT 25 YEARS WARRANTY

Aesthetics

Designed with aesthetics in mind, the module blends harmoniously with the appearance of your house while producing high energy.

Better Performance

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

Excellent Quality

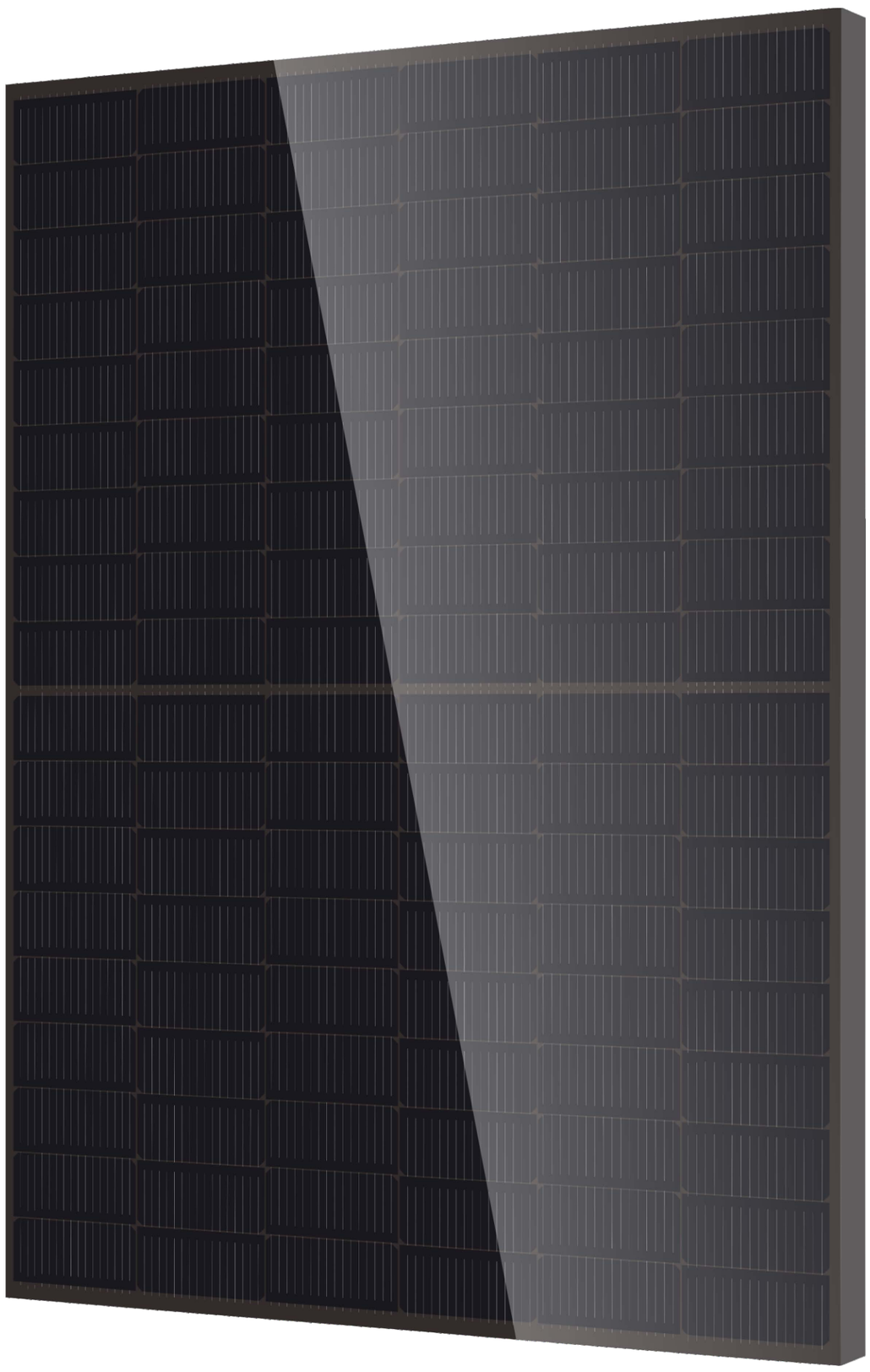
More than 40 years' experience of manufacturing and intensive quality tests above the IEC standard ensures reliable modules and a secured investment.

Assumption of Environmental, Social and Governance Responsibility (ESG)

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

High-quality Service

We provide a customer-oriented and localized services, covering pre-sale, sale and after-sales.



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

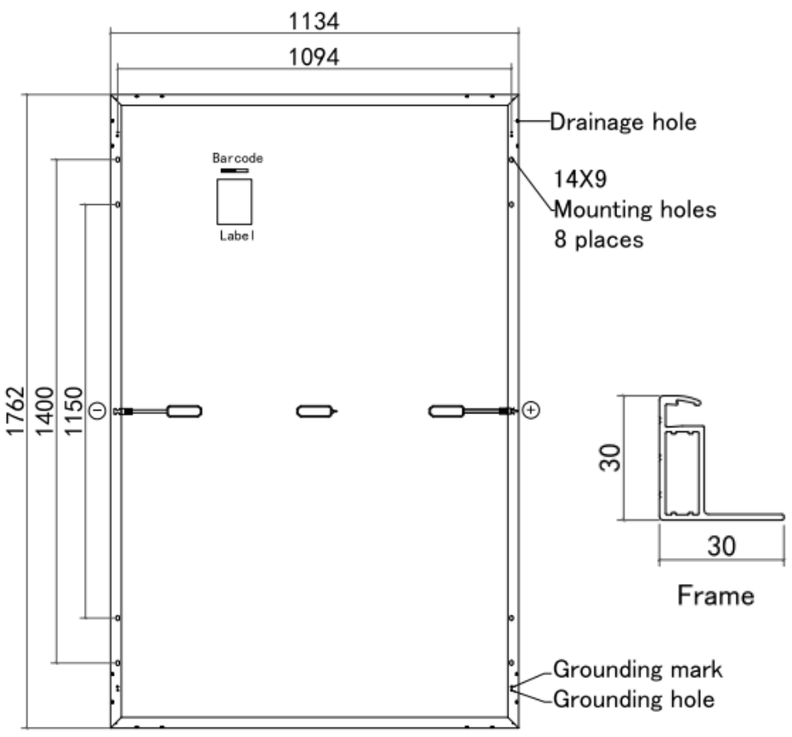
DE 50188598

A member of Hengdian Group

DMxxxM10RT-54HBB

Module Specification

Cell Type	N -type Mono-crystalline , 108 (6x18)
Dimensions (mm)	1762 x 1134 x 30
Weight (kg)	20.6
Front Cover	3.2 mm tempered solar glass with anti -reflective coating
Rear Cover	Backsheet
Junction Box	3 Diodes, IP68 according to IEC 62790
Cables	4mm²/Portrait: 350mm (+)/250mm(-) Landscape: 1100mm(+)/1100mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4 (1000V)



Back side(mm)

Electrical Specifications[1]

Module Type	DM435M10RT-54HBB		DM440M10RT-54HBB		DM445M10RT-54HBB		DM450M10RT-54HBB	
Testing Condition	STC[2]	NMOT[3]	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	**435**	327	**440**	331	**445**	335	**450**	339
Maximum Power Current (Imp/A)	13.33	10.78	13.40	10.83	13.47	10.89	13.54	10.95
Maximum Power Voltage (Vmp/V)	32.64	30.49	32.84	30.67	33.04	30.86	33.24	31.05
Short-circuit Current (Isc/A)	13.83	11.14	13.90	11.19	13.97	11.25	14.04	11.31
Open-circuit Voltage (Voc/V)	39.20	37.13	39.40	37.32	39.60	37.51	39.80	37.70
Module Efficiency STC (%)	**21.8**		**22.0**		**22.3**		**22.5**	

[1] Measurements according to IEC 60904-3, Measurement tolerance: ISC: ±4 %,VOC: ± 3 %,
[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

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)	1000V DC (IEC)
Overcurrent protection rating (A)	25
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

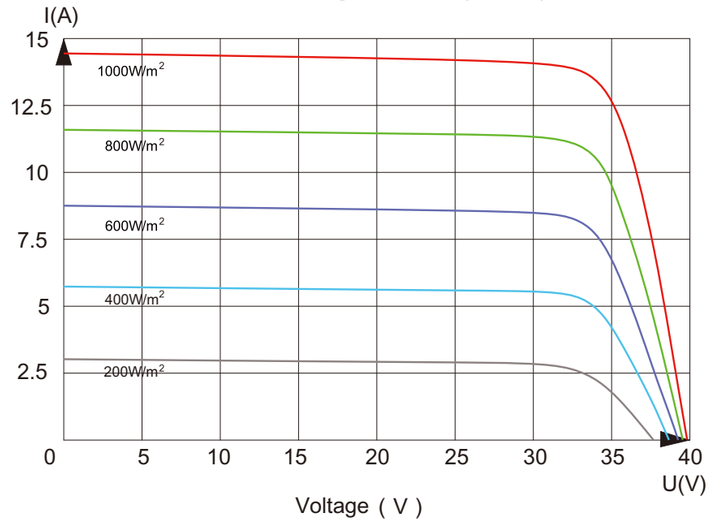
Temperature Characteristics

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)	1800× 1140 × 1250
Pieces per Pallet	36
Pieces per Container	936

Current-Voltage Curve (450W)



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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