

N-Type

Bifacial Module designed for Carports, Greenhouses

GHxxxM10T-B54HBT/HST

430~445W

22.8%
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.

25
25 years
product warranty

30
30 years linear
power warranty



German DIBt Approval (abZ)

Can be used for carports and overhead installations.



Enhanced Light Scattering Tech

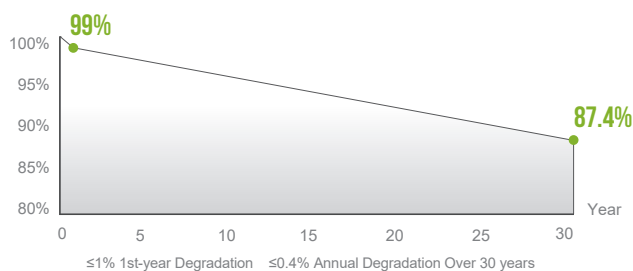
High light consistency, mitigate shade impact at plants under solar module.



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
Ammonia Corrosion (IEC 62716)
Salt Mist Corrosion (IEC 61701)
LeTID (IEC TS 63342)



Deutsches
Institut
für
Bautechnik

DIBt

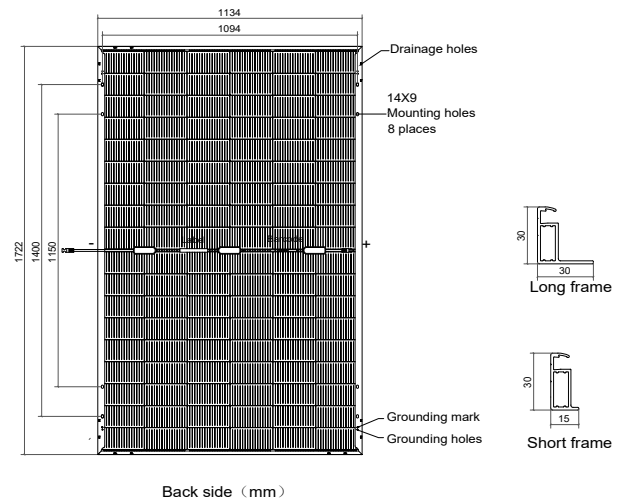


**SolarPower
Europe**

GHxxxM10T-B54HBT/HST

Module Specification

Cell Type	N type Mono-crystalline, 108(6x18)
Dimensions (mm)	1722x1134x30
Weight (kg)	23.6
Front Cover	2 mm semi-tempered with anti-reflective coating
Rear Cover	2 mm semi-tempered glass
Junction Box	3 Diodes, IP68 according to IEC 62790
Output Cables (Including Connector)	4mm ² /Portrait:300mm (+)/200mm(-) Landscape: 1100mm(+)/1100mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4-EVO 2A (1500V)



Electrical Specifications¹

Module Type	GH430M10T-B54HBT/HST		GH435M10T-B54HBT/HST		GH440M10T-B54HBT/HST		GH445M10T-B54HBT/HST	
Testing Condition	STC ²	NMOT ³	STC ²	NMOT ³	STC	NMOT	STC	NMOT
Maximum Power (P _{max} /W)	430	324	435	327	440	331	445	335
Maximum Power Current (I _{mp} /A)	13.10	10.53	13.17	10.59	13.24	10.64	13.31	10.70
Maximum Power Voltage (V _{mp} /V)	32.83	30.70	33.03	30.89	33.24	31.08	33.45	31.28
Short-circuit Current (I _{sc} /A)	13.88	11.24	13.95	11.30	14.02	11.36	14.09	11.41
Open-circuit Voltage (V _{oc} /V)	39.44	37.14	39.64	37.32	39.84	37.51	40.04	37.70
Module Efficiency STC (%)	22.0		22.3		22.5		22.8	

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): Irradiance 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)	430	435	440	445
Maximum Power (P _{max} /W)	475	481	486	492
Maximum Power Current (I _{mp} /A)	14.46	14.53	14.61	14.69
Maximum Power Voltage (V _{mp} /V)	32.87	33.07	33.28	33.49
Short-circuit Current (I _{sc} /A)	15.27	15.35	15.42	15.50
Open-circuit Voltage (V _{oc} /V)	39.44	39.64	39.84	40.04

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

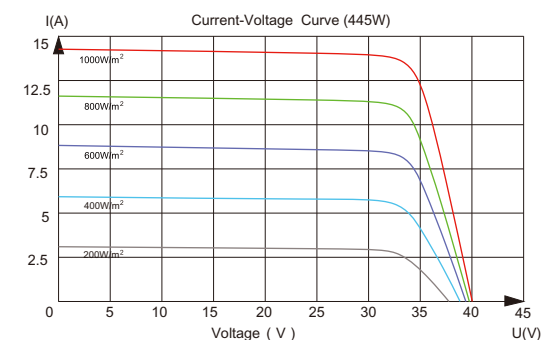
Nominal Module Operating Temperature (NMOT)	42±2 °C
Temperature Coefficient of P _{max} (%/°C)	-0.29
Temperature Coefficient of V _{oc} (%/°C)	-0.25
Temperature Coefficient of I _{sc} (%/°C)	+0.048

Packaging

Container	40HQ
Pallet Dimensions (mm)	1770x1140x1250
Pieces per Pallet	36
Pieces per Container	936

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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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. All information in this data sheet corresponds to EN 50380.Changes and errors excepted. Document. EN DS-M10T-B54HBT/HST-20250708.

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