



## 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

~3% Transparent area



### 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.

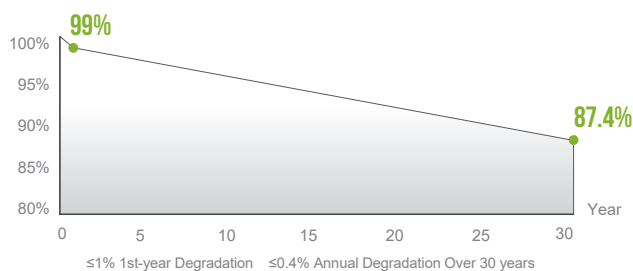
## COMPANY MANAGEMENT SYSTEM

- 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)

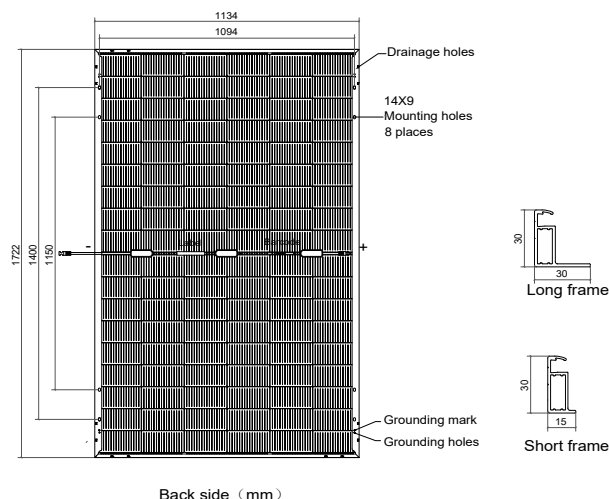
## POWER WARRANTY



# 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 <sup>2</sup> /Portrait:300mm (+)/200mm(-) Landscape: 1100mm(+)/1100mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4-EVO 2A (1500V)



## Electrical Specifications<sup>1</sup>

Module Type	GH430M10T-B54HBT/HST		GH435M10T-B54HBT/HST		GH440M10T-B54HBT/HST		GH445M10T-B54HBT/HST	
	STC <sup>2</sup>	NMOT <sup>3</sup>	STC <sup>2</sup>	NMOT <sup>3</sup>	STC	NMOT	STC	NMOT
Maximum Power (P <sub>max</sub> /W)	430	324	435	327	440	331	445	335
Maximum Power Current (I <sub>mp</sub> /A)	13.10	10.53	13.17	10.59	13.24	10.64	13.31	10.70
Maximum Power Voltage (V <sub>mp</sub> /V)	32.83	30.70	33.03	30.89	33.24	31.08	33.45	31.28
Short-circuit Current (I <sub>sc</sub> /A)	13.88	11.24	13.95	11.30	14.02	11.36	14.09	11.41
Open-circuit Voltage (V <sub>oc</sub> /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	

<sup>1</sup> Measurements according to IEC 60904-3, Measurement tolerance: I<sub>sc</sub>: ±4%, V<sub>oc</sub>: ±3%, Test uncertainty for P<sub>max</sub>: ±3%, Bifaciality: 80%±5%  
<sup>2</sup> STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5  
<sup>3</sup> NMOT: Radiation 800W/m<sup>2</sup>, Ambient temperature 20°C, AM=1.5, Wind Speed 1m/s

## Electrical Specifications<sup>1</sup> (BNPI<sup>2</sup>)

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

<sup>1</sup> Measurements according to IEC 60904-3, Measurement tolerance: I<sub>sc</sub>: ±4%, V<sub>oc</sub>: ±3%, Test uncertainty for P<sub>max</sub>: ±3%  
<sup>2</sup> BNPI: Front radiation 1000W/m<sup>2</sup>, Rear radiation 135W/m<sup>2</sup>, Module temperature 25°C, AM=1.5

## Operating conditions

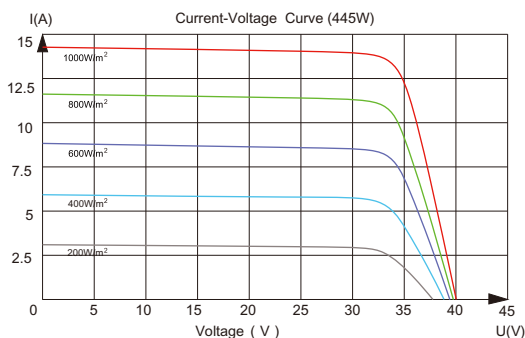
Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1500 DC (IEC)
Overcurrent Protection Rating (A)	30
Power Output Tolerance (%)	0~3%
Protection Class	Class II
Max. Test Load, Push/Pull (Pa)	Front 5400 / Back 2400
Max. Design Load, Push/Pull (Pa)	Front 3600 / Back 1600

## Temperature Characteristics

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

## Packaging

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



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