

HG-T Series

BIFACIAL PERC MONOCRYSTALLINE MODULE

440-460 w



• HG-T SERIES

HG group redefined the high-efficiency module series by integrating 166mm silicon wafers with PERC and half-cut technologies. HG group panel combined creative technology effectively and extremely improved the module efficiency and power out.

• KEY FEATURES

- Bifacial technology enables additional energy harvesting from rear side (up to 30%)
- Less mismatch to get more power
- Less power loss by minimizing the shading impact
- Competitive low light performance
- 3 times EL test to ensure best quality
- Reducing costs and increasing returns are important goals for businesses
- Outstanding reliability proven for stringent environment condition :
 - .Sand, acid, salt, and hail stones
 - .2400pa wind load and 5400pa snow load
 - .Anti-PID

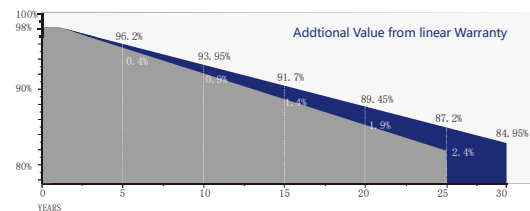
• QUALITY SYSTEM

ISO19001 / ISO14001 / ISO45001

• PRODUCT CERTIFICATION



• WARRANTY



Guarantee on product material and workmanship



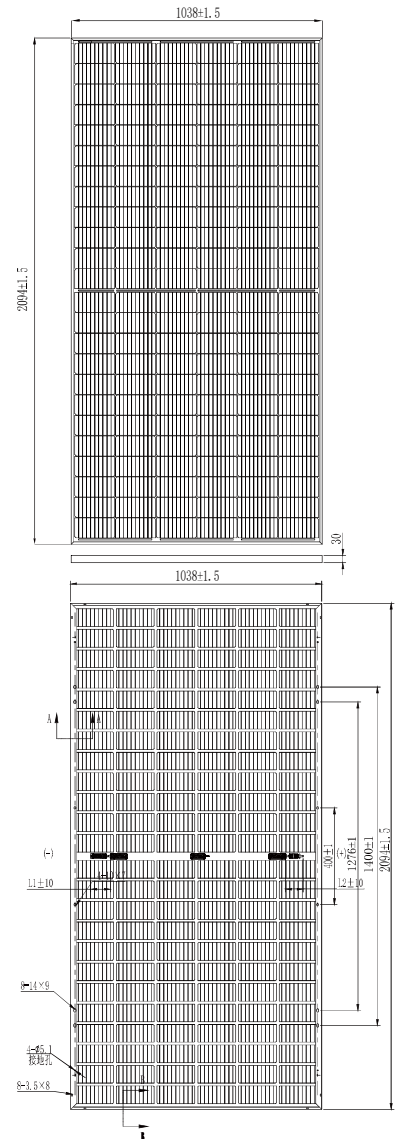
Linear power output warranty

Electrical Characteristics

Module Type	HGT440-72BB		HGT445-72BB		HGT450-72BB		HGT455-72BB		HGT460-72BB	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power P _{mp}	440W	326W	445W	330W	450W	333W	455W	337W	460W	342W
Open Circuit Voltage-V _{oc}	49.80V	47.1V	49.90V	47.20V	50.00V	47.20V	50.10V	47.30V	49.70V	47.10V
Short Circuit Current-I _{sc}	11.60A	9.37A	11.72A	9.46A	11.83A	9.55A	11.96A	9.66A	11.78A	9.51A
Max Power Voltage-V _{mp}	40.90V	38.60V	41.00V	38.70V	41.10V	38.80V	41.40V	38.9V	41.90V	39.70V
Max Power Current-I _{mp}	10.77A	8.45A	10.86A	8.53A	10.96A	8.58A	10.99A	8.66A	10.99A	8.61A
Module Efficiency STC-η _m	20.2%		20.5%		20.7%		20.9%		21.2%	
Power Tolerance(W)	0~+5W									
Maximum System Voltage	1500V DC									
Max Serie Fuse Rating	20A									

STC: irradiance 1000W/m² module temperature 25°C AM=1.5
 NMOT: irradiance of 800W / m², ambient temperature 20°C, and wind speed 1m / s

Technical drawings



Rear Gain (Take 450W as an example)

Gain	5%	10%	15%	20%	25%	30%
Maximum Power	473W	495W	517W	541W	564W	587W
Open Circuit Voltage (Voc)	50.0V	50.0V	50.0V	50.1V	50.1V	50.1V
Short Circuit Current (Isc)	12.42A	13.01A	13.60A	14.20A	14.79A	15.38A
Maximum Power Voltage (Vmp)	41.1V	41.1V	41.1V	41.2V	41.2V	41.2V
Maximum Circuit Current (Imp)	11.51A	12.06A	12.60A	13.15A	13.70A	14.25A

Temperature characteristic

Pmax Temperature Coefficient	-0.35 %/°C
Voc Temperature Coefficient	-0.26 %/°C
Isc Temperature Coefficient	+0.047 %/°C
Operating Temperature	-40~+85 °C
Nominal module operation temperature	45 ± 2 °C

Mechanical Specifications

External Dimension	2094*1038*30mm
Weight	27.0kg
Solar Cell	Mono crystalline 166*83mm, 144 (6*24)
Glass	2.0mm Tempered Glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes, MC4 compatible
Output Cables	4.0mm ² , 200mm (+)/300mm (-) or Customized Length
Mechanical Load	Front side 5400pa/Back side 2400pa
Packaging Configuration	36pcs / box, 792pcs / 40' HQ Container

