

HG-Tiger Series

BIFACIAL PERC MONOCRYSTALLINE MODULE

575-595 w



• HG-TIGER SERIES

HG group redefined the high-efficiency module series by integrating 182mm 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

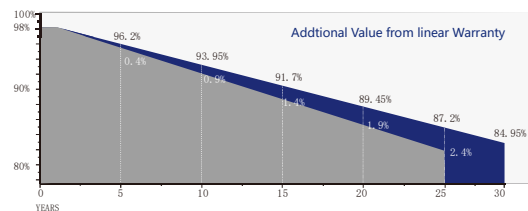
• QUALITY SYSTEM

ISO19001 / ISO14001 / ISO45001

• PRODUCT CERTIFICATION



• WARRANTY



Guarantee on product material and workmanship



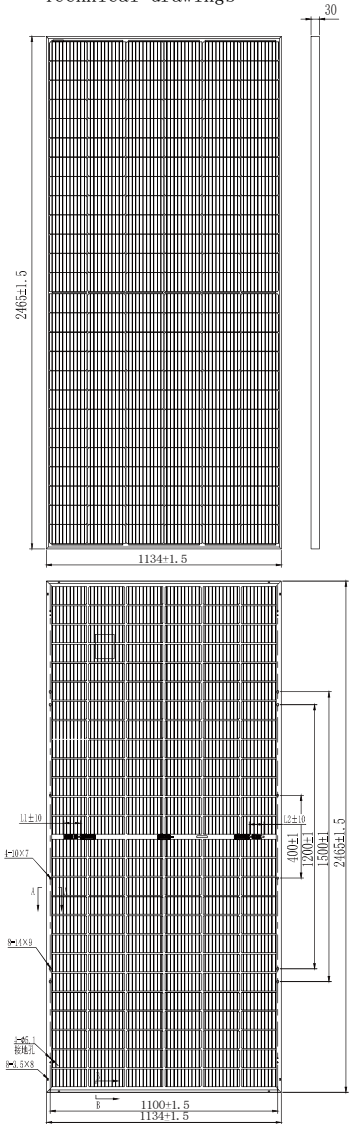
Linear power output warranty

Electrical Characteristics

Module Type	HGT575-78CB		HGT580-78CB		HGT585-78CB		HGT590-78CB		HGT595-78CB	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power P_{mp}	575W	428W	580W	431W	585W	435W	590W	439W	595W	443W
Open Circuit Voltage- V_{oc}	53.34V	50.56V	53.49V	50.70V	53.64V	50.84V	53.79V	50.98V	53.94V	51.12V
Short Circuit Current- I_{sc}	13.75A	11.10A	13.82A	11.15A	13.89A	11.21A	13.96A	11.27A	14.03A	11.32A
Max Power Voltage- V_{mp}	44.83V	42.49V	44.98V	42.63V	45.13V	42.77V	45.28V	42.92V	45.43V	43.06V
Max Power Current- I_{mp}	12.83A	10.07A	12.90A	10.11A	12.97A	10.17A	13.04A	10.23A	13.11A	10.29A
Module Efficiency STC- η_m	20.6%		20.7%		20.9%		21.1%		21.3%	
Power Tolerance(W)	0~+5W									
Maximum System Voltage	1500V DC									
Max Serie Fuse Rating	25A									

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 585W as an example)

Gain	5%	10%	15%	20%	25%	30%
Maximum Power	614 W	644 W	674 W	703 W	733 W	762 W
Open Circuit Voltage (V_{oc})	53.66V	53.68V	53.70V	53.72V	53.74V	53.75V
Short Circuit Current (I_{sc})	14.58 A	15.28 A	15.97 A	16.67 A	17.36 A	18.06 A
Maximum Power Voltage (V_{mp})	45.15V	45.17V	45.19V	45.21V	45.23V	45.24V
Maximum Circuit Current (I_{mp})	13.62 A	14.27 A	14.92 A	15.56 A	16.21 A	16.86 A

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	2465*1134*30mm
Weight	35.0kg
Solar Cell	Mono crystalline 182*91mm, 156 (6*26)
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, 576pcs / 40' HQ Container

