

# HG-Tiger Series

BIFACIAL PERC MONOCRYSTALLINE MODULE

## 440-460 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

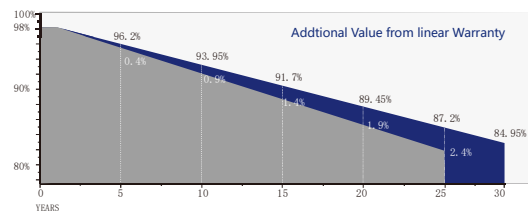
### • QUALITY SYSTEM

ISO19001 / ISO14001 / ISO45001

### • PRODUCT CERTIFICATION



### • WARRANTY



Guarantee on product material and workmanship



Linear power output warranty

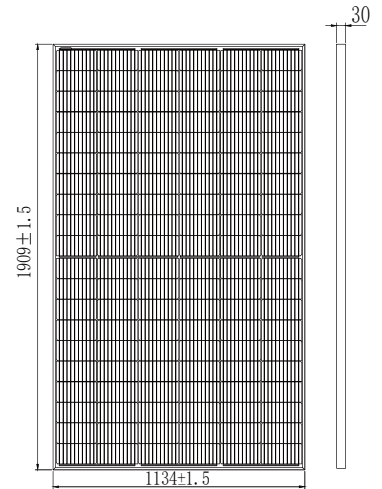
## Electrical Characteristics

Module Type	HGT440-60CB		HGT445-60CB		HGT450-60CB		HGT455-60CB		HGT460-60CB	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power $P_{mp}$	440W	327W	445W	331W	450W	335W	455W	338W	460W	342W
Open Circuit Voltage- $V_{oc}$	41.03V	38.89V	41.18V	39.03V	41.33V	39.17V	41.48V	39.31V	41.63V	39.46V
Short Circuit Current- $I_{sc}$	13.76A	11.11A	13.83A	11.16A	13.90A	11.22A	13.97A	11.27A	14.04A	11.33A
Max Power Voltage- $V_{mp}$	34.48V	32.68V	34.63V	32.82V	34.78V	32.96V	34.93V	33.11V	35.08V	33.25V
Max Power Current- $I_{mp}$	12.77A	10.01A	12.86A	10.09A	12.95A	10.16A	13.04A	10.21A	13.13A	10.29A
Module Efficiency STC- $\eta_m$	20.3%		20.6%		20.8%		21.0%		21.2%	
Power Tolerance(W)	0~+5W									
Maximum System Voltage	1500V DC									
Max Serie Fuse Rating	25A									

STC: irradiance 1000W/m<sup>2</sup> module temperature 25°C AM=1.5

NMOT: irradiance of 800W / m<sup>2</sup>, ambient temperature 20°C, and wind speed 1m / s

Technical drawings



## Rear Gain(Take450W as an example)

Gain	5%	10%	15%	20%	25%	30%
Maximum Power	473W	496W	518W	541W	564W	587W
Open Circuit Voltage (Voc)	41.35V	41.37V	41.39V	41.41V	41.43V	41.44V
Short Circuit Current (Isc)	14.60A	15.29A	15.99A	16.68A	17.38A	18.07A
Maximum Power Voltage (Vmp)	34.80V	34.82V	34.84V	34.86V	34.88V	34.89V
Maximum Circuit Current (Imp)	13.60A	14.25A	14.89A	15.54A	16.19A	16.84A

## 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	1909*1134*30mm
Weight	26.5kg
Solar Cell	Mono crystalline 182*91mm, 120 (6*20)
Glass	2.0mm Tempered Glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes, MC4 compatible
Output Cables	4.0mm <sup>2</sup> , 200mm(+)/300mm(-) or Customized Length
Mechanical Load	Front side 5400pa/Back side 2400pa
Packaging Configuration	36pcs / box, 864pcs / 40' HQ Container

