

# HG-Tiger Series

Multiple upgrades were forged into one

## 450-470 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

- 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

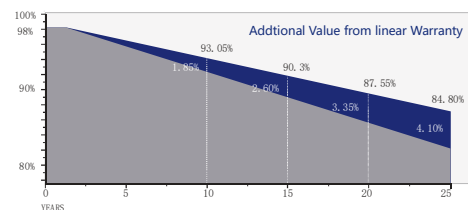
### • QUALITY SYSTEM

ISO19001 / ISO14001 / ISO45001

### • PRODUCT CERTIFICATION



### • WARRANTY



Guarantee on product material and workmanship



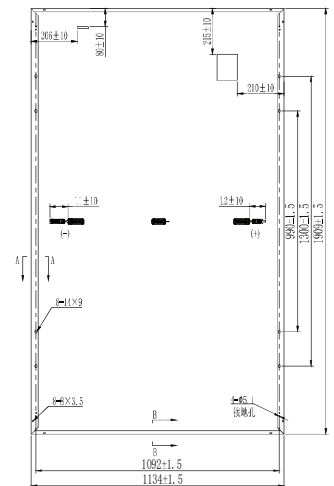
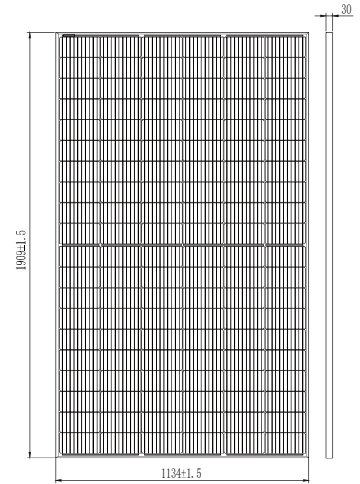
Linear power output warranty

## Electrical Characteristics

Module Type	HGT450-60CW		HGT455-60CW		HGT460-60CW		HGT465-60CW		HGT470-60CW	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power $P_{mp}$	450W	335W	455W	338W	460W	342W	465W	346W	470W	350W
Open Circuit Voltage- $V_{oc}$	41.33V	39.17V	41.48V	39.31V	41.63V	39.46V	41.78V	39.60V	41.93V	39.74V
Short Circuit Current- $I_{sc}$	13.90A	11.22A	13.97A	11.27A	14.04A	11.33A	14.11A	11.39A	14.18A	11.44A
Max Power Voltage- $V_{mp}$	34.78V	32.96V	34.93V	33.11V	35.08V	33.25V	35.23V	33.39V	35.38V	33.53V
Max Power Current- $I_{mp}$	12.95A	10.16A	13.04A	10.21A	13.13A	10.29A	13.22A	10.36A	13.30A	10.44A
Module Efficiency STC- $\eta_m$	20.8%		21.0%		21.2%		21.5%		21.7%	
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



## Temperature characteristic

$P_{max}$ Temperature Coefficient	-0.35 %/° C
$V_{oc}$ Temperature Coefficient	-0.26 %/° C
$I_{sc}$ 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	23.0kg
Solar Cell	Mono crystalline 182*91mm, 120 (6*20)
GLASS	High transmission 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

