

HG-Teslar Series

Multiple upgrades were forged into one

590-610 W



• HG-TESLAR SERIES

HG group redefined the high-efficiency module series by integrating 210 mm 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

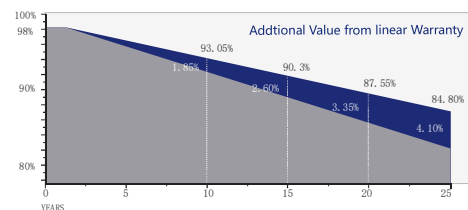
• QUALITY SYSTEM

ISO19001 / ISO14001 / ISO45001

• PRODUCT CERTIFICATION



• WARRANTY



Guarantee on product material and workmanship



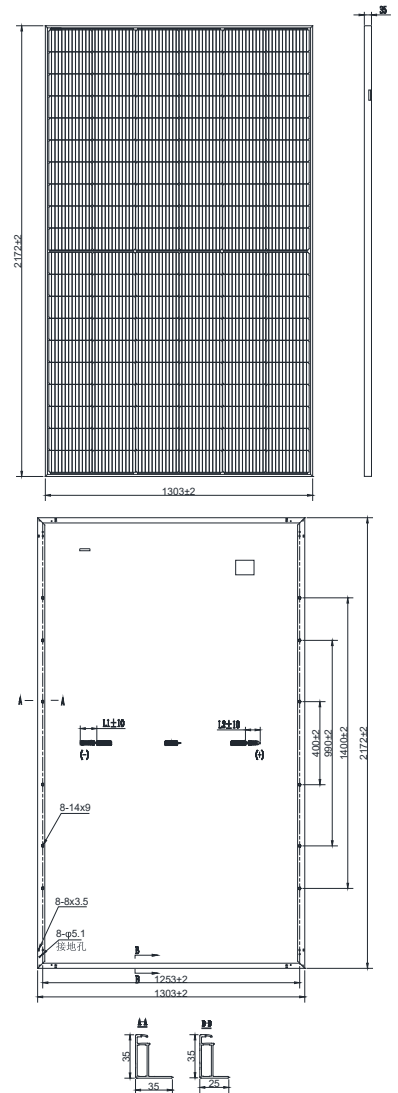
Linear power output warranty

Electrical Characteristics

Module Type	HGT590-60DW		HGT595-60DW		HGT600-60DW		HGT605-60DW		HGT610-60DW	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power P_{mp}	590W	447W	595W	281W	600W	455W	605W	458W	395W	294W
Open Circuit Voltage- V_{oc}	40.9V	39.2V	41.1V	39.4V	41.3V	39.6V	41.5V	39.8V	41.9V	39.7V
Short Circuit Current- I_{sc}	18.37A	14.79A	18.42A	14.84A	18.47A	14.88A	18.52A	14.92A	11.99A	9.68A
Max Power Voltage- V_{mp}	34.5V	33.1V	34.7V	33.3V	34.9V	33.4V	35.1V	33.6V	35.4V	33.6V
Max Power Current- I_{mp}	17.11A	13.5A	17.15A	13.54A	17.2A	13.62A	17.25A	13.63A	11.17A	8.75A
Module Efficiency STC- η_m	20.86%		21.03%		21.21%		21.39%		21.57%	
Power Tolerance(W)	0~+5W									
Maximum System Voltage	1500V DC									
Max Serie Fuse Rating	30A									

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



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	2172*1303*35mm
Weight	30.5kg
Solar Cell	Mono crystalline 210*105mm, 120 (6*20)
GLASS	High transmission tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3diodes, MC4 compatible
Output Cables	4.0mm ² , 400mm(+)/300mm(-) or Customized Length
Mechanical Load	Front side 5400pa/Back side 2400pa
Packaging Configuration	31pcs / box, 558pcs / 40' HQ Container

