

HG-Teslar Series

BIFACIAL PERC MONOCRYSTALLINE MODULE

645-665 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

- 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

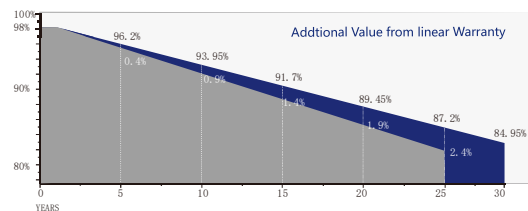
• QUALITY SYSTEM

ISO19001 / ISO14001 / ISO45001

• PRODUCT CERTIFICATION



• WARRANTY



Guarantee on product material and workmanship



Linear power output warranty

Electrical Characteristics

Module Type	HGT645-66DB		HGT650-66DB		HGT655-66DB		HGT660-66DB		HGT665-66DB	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power P_{mp}	645W	489W	650W	493W	655W	496W	660W	500W	665W	504W
Open Circuit Voltage- V_{oc}	44.8V	42.9V	45.0V	43.1V	45.2V	43.3V	45.4V	43.5V	45.6V	43.7V
Short Circuit Current- I_{sc}	18.35A	14.78A	18.39A	14.81A	18.43A	14.84A	18.47A	14.88A	18.51A	14.91A
Max Power Voltage- V_{mp}	37.7V	36.1V	37.9V	36.3V	38.1V	36.5V	38.3V	36.7V	38.5V	36.9V
Max Power Current- I_{mp}	17.11A	13.55A	17.16A	13.58A	17.2A	13.59A	17.24A	13.62A	17.28A	13.66A
Module Efficiency STC- η_m	20.8%		20.9%		21.1%		21.2%		21.4%	
Power Tolerance(W)	0~+5W									
Maximum System Voltage	1500V DC									
Max Serise Fuse Rating	35A									

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

Rear Gain(Take 655W as an example)

Gain	5%	10%	15%	20%	25%	30%
Maximum Power	693W	726W	759W	792W	825W	858W
Open Circuit Voltage (Voc)	45.42V	45.44V	45.46V	45.48V	45.50V	45.51V
Short Circuit Current (Isc)	19.39A	20.32A	21.24A	22.16A	23.09	24.01A
Maximum Power Voltage (Vmp)	38.34V	38.36V	38.38V	38.40V	38.42V	38.43V
Maximum Circuit Current (Imp)	18.1A	18.96A	19.83A	20.69A	21.55A	22.41A

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	2384*1303*35mm
Weight	38.5kg
Solar Cell	Mono crystalline210*105mm, 132 (6*22)
Glass	2.0mm 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

Technical drawings

