

HG-T Lightweight

Half the weight, easy to install

Efficient N-type TOPCON single glass lightweight solar module

425W-445W



• HG-T Lightweight Series

HG GROUP redefines high-efficient lightweight solar modules by integrating 182mm TOPCON solar cells and half-cut technology. HG GROUP lightweight modules combine with innovative technology, which greatly improves module's efficiency and power output. Lightweight series with 1.6mm ultra-thin glass greatly also reduces module weight.

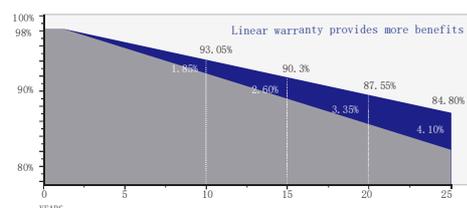
Products Features

- Reducing the adaptive loss to get higher power.
- Reduce power loss by minimizing the effects of shading
- 60% lighter than traditional solar module
- Three EL tests ensure the best quality
- The reduction of BOS and the improvement of ROI are ideal choices for industrial and commercial projects.
- The superior reliability has been proven through rigorous weathering test:
 - Sand and dust resistance, acid and alkali-resistance, Hail test
 - 2400pa wind load and 2400pa snow load.
 - Anti-PID

• Quality System

ISO9001
ISO14001
ISO45001

• Product Warranty



Quality and process performance Assurance

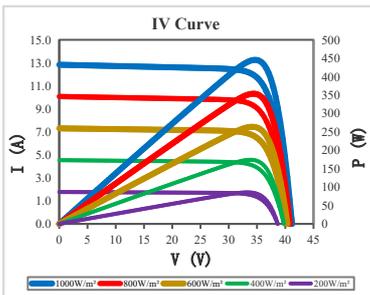
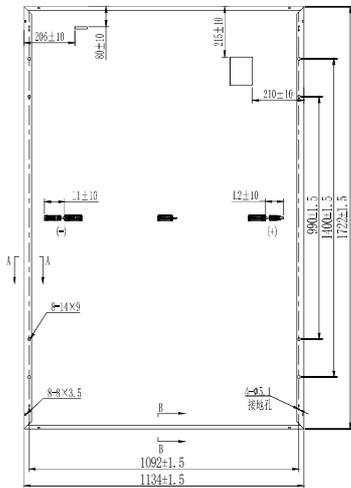
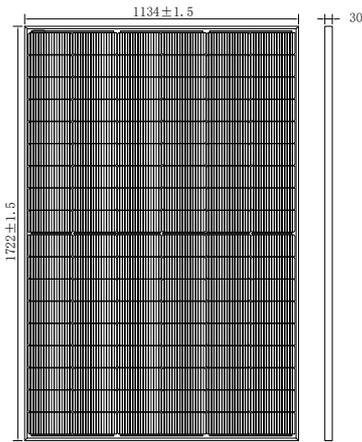


Linear power Output Warranty

Address: No.633 Chengnan Avenue, Banqiao Industrial Park, Rongchang District, Chongqing, China

Website: www.hg-energy-group.cn

Technical drawings



Electrical Parameters

Module Type	HGT425-54CW		HGT430-54CW		HGT435-54CW		HGT440-54CW		HGT445-54CW	
	STC	NMOT								
Maximum Power (P_{max})	425W	320W	430W	323W	435W	327W	440W	331W	445W	335W
Open Circuit Voltage (V_{oc})	38.95V	37.00V	39.16V	37.20V	39.36V	37.39V	38.57V	37.59V	39.77V	37.78V
Short Circuit Current (I_{sc})	13.58A	10.96A	13.65A	11.02A	13.72A	11.08A	13.80A	11.14A	13.87A	11.20A
Max Power Voltage (V_{mp})	32.37V	30.19V	32.58V	30.30V	32.78V	30.50V	32.99V	30.73V	33.19V	30.93V
Max Power Current (I_{mp})	13.13A	10.60A	13.20A	10.66A	13.27A	10.72A	13.34A	10.77A	13.41A	10.83A
Module Efficiency STC (η_s)	21.8%		22.0%		22.3%		22.5%		22.8%	
Power Tolerance	0~+5W									
Maximum System Voltage	1500V DC									
Max Serise 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

The uncertainty of Pmax, Voc, Isc testing is ± 3%

Mechanical Specifications

External Dimension	1722*1134*30mm
Weight	13.5 ± 0.5kg
Solar Cell	N-type Mono crystalline 182*91mm, 108 (6*18)
GLASS	1.6mm high transparency low iron tempered coated glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes, MC4 compatible
Output Cables	4.0mm ² (IEC), 250~300mm(+)/(-) or Customized Length
Mechanical Load	Front side 2400pa/Back side 2400pa

Temperature characteristic

Pmax Temperature Coefficient	-0.30 %/° C
Voc Temperature Coefficient	-0.25 %/° C
Isc Temperature Coefficient	+0.045 %/° C
Operating Temperature	-40 ~ +85 ° C
Nominal module operation temperature	45 ± 2 ° C

Package

Packing Unit	40HQ	17.5m platform truck
PCS/CTNS	36	36
Qty of Package	26	36
PCS/Packages	936	1296