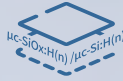
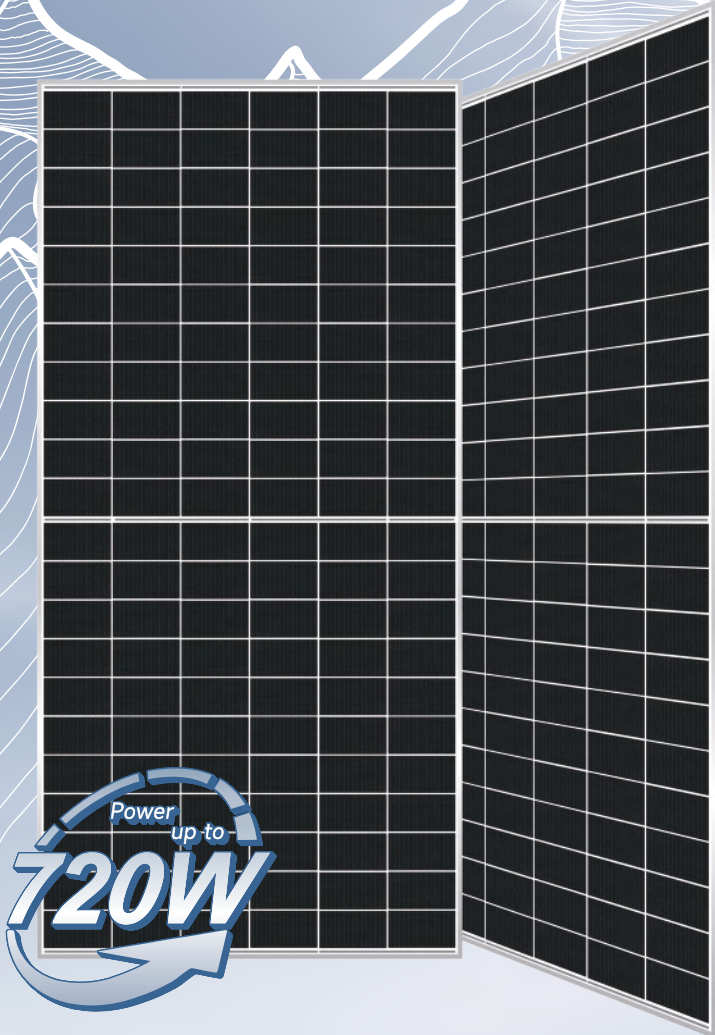


HJTG12720W

132-cell Bifacial HJT Half Cell
Double-glass Solar Module



HJT 2.0 Technology

Combining gettering process and single-side $\mu\text{c-Si}$ technology to ensure higher cell efficiency and higher module power.



-0.26%/C Pmax temperature coefficient

More stable power generation performance and even better in hot climate.



SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.



Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extend module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Suitable for Utility project

Lower BOS cost, lower LCOE.

WARRANTY

Product
Warranty **15**
years

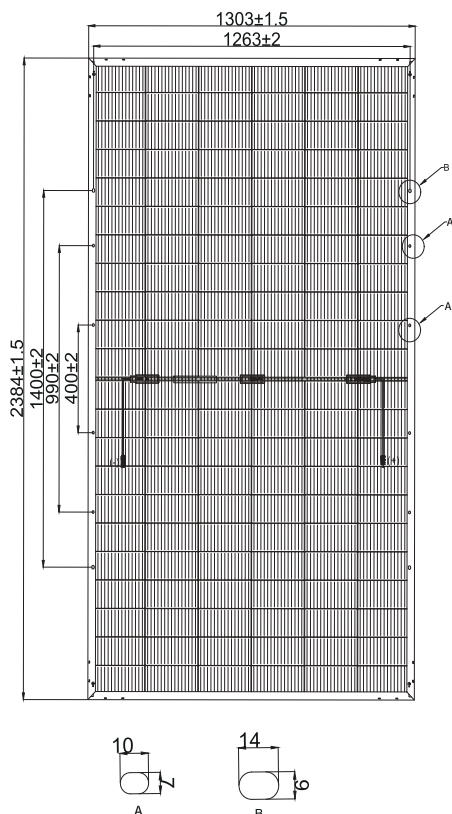
Linear
Power
Warranty **30**
years



The specification and key features described in this datasheet may deviate slightly and are guaranteed. Tengying serves the right to make any adjustment to the information described herein at any time without notice. please always obtain the latest version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

Engineering Drawings

Unit: mm



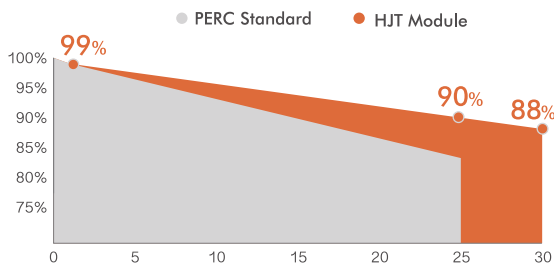
Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	0.04%/°C

Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

* Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



* Refer to TENGYING standard warranty for details

Electrical Characteristics (STC*)

HJTG12720W	TS700	TS705	TS710	TS715	TS720
Maximum Power (Pmax)	700W	705W	710W	715W	720W
Module Efficiency (%)	22.53%	22.70%	22.86%	23.02%	23.18%
Optimum Operating Voltage (Vmp)	42.10V	42.25V	42.39V	42.54V	42.68V
Optimum Operating Current (Imp)	16.63A	16.69A	16.75A	16.81A	16.87A
Open Circuit Voltage (Voc)	50.13V	50.29V	50.44V	50.59V	50.74V
Short Circuit Current (Isc)	17.43A	17.49A	17.55A	17.61A	17.67A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	85% ± 5%				

*STC: Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5. Tolerance of Pmax is within +/- 3%.

BSTC**

	770W	775W	780W	785W	790W
Maximum Power (Pmax)	770W	775W	780W	785W	790W
Optimum Operating Voltage (Vmp)	42.10V	42.25V	42.39V	42.54V	42.68V
Optimum Operating Current (Imp)	18.29A	18.35A	18.41A	18.46A	18.51A
Open Circuit Voltage (Voc)	50.13V	50.29V	50.44V	50.59V	50.74V
Short Circuit Current (Isc)	19.17A	19.22A	19.28A	19.33A	19.39A

**BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25 °C.

Mechanical Characteristics

Cell Type	HJT Mono 210 × 105mm
Cell Connection	132 (6 × 22)
Module Dimension	2384 × 1303 × 35 mm
Weight	38.7 kg
Junction Box	IP68
Output Cable	4mm ² , 300mm in length, length can be customized / UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm

Shipping Configurations

	HC
Container Size	40'
Pallets Per Container	18
Modules Per Pallet (pcs)	31
Modules Per Container (pcs)	558