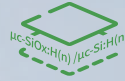
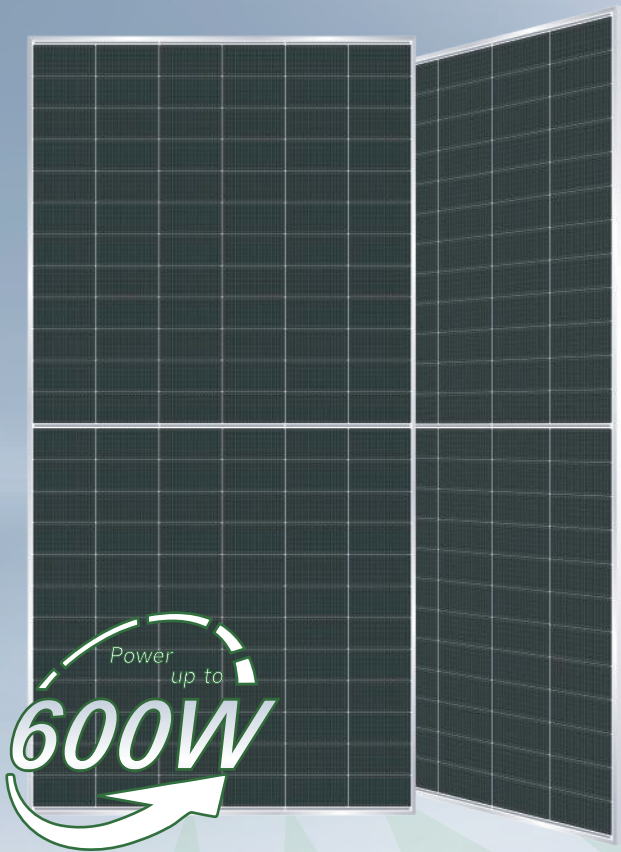


HJT G12 Series 580-600W

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



HJT 2.0 Technology

Combining gettering process and single-side uc-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 **30** years

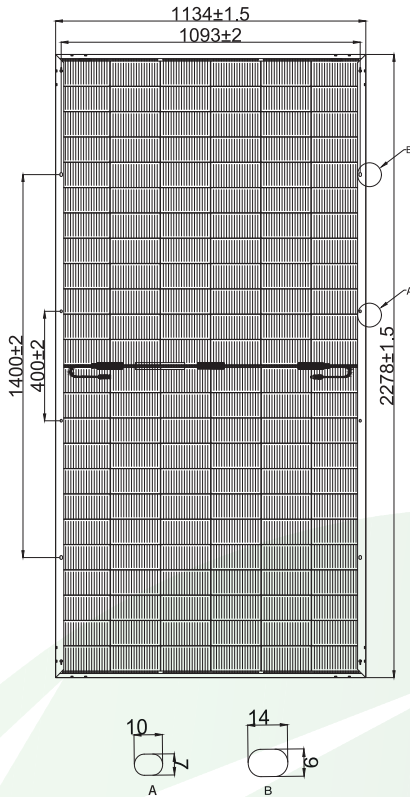
Linear
Power
Warranty **30** years



HJT G12 Series 580-600W 144-cell Bifacial HJT Half Cell Module

Engineering Drawings

Unit: mm



Electrical Characteristics (STC*)

THS-D72HND	580W	585W	590W	595W	600W
Maximum Power (Pmax)	580W	585W	590W	595W	600W
Module Efficiency (%)	22.45%	22.65%	22.84%	22.03%	23.23%
Optimum Operating Voltage(Vmp)	45.00V	45.21V	45.42V	45.63V	45.84V
Optimum Operating Current (Imp)	12.89A	12.94A	12.99A	13.04A	13.09A
Open Circuit Voltage (Voc)	53.92V	54.12V	54.31V	54.50V	54.70V
Short Circuit Current (Isc)	13.35A	13.40A	13.45A	13.50A	13.55A
Operating Module Temperature	-40 to +85°C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
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*

	640W	645W	650W	655W	660W
Maximum Power (Pmax)	640W	645W	650W	655W	660W
Optimum Operating Voltage(Vmp)	45.00V	45.21V	45.42V	45.63V	45.84V
Optimum Operating Current (Imp)	14.23A	14.27A	14.32A	14.36A	14.40A
Open Circuit Voltage (Voc)	53.92V	54.12V	54.31V	54.50V	54.70V
Short Circuit Current (Isc)	14.73A	14.77A	14.82A	14.86A	14.91A

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

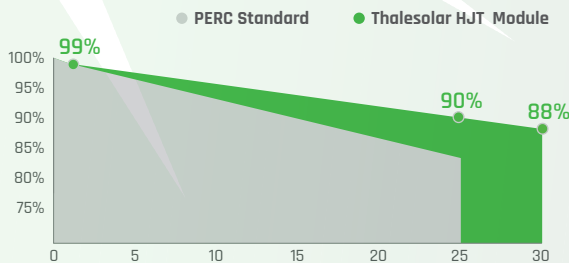
Temperature Characteristics

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	30 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 Thalesolar standard warranty for details

Mechanical Characteristics

Cell Type	HJT Mono 182X91.75mm
Cell Connection	144(6X24)
Module Dimension	2278X1134X30mm
Weight	32kg
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
Encapsulant	PDE/EPE
Front Load	5400Pa
Rear Load	2400Pa
Glass Thickness	Double solar glass 2.0mm/1.6mm

Shipping Configurations

Container Type	HC
Container Size	40'
Pallets Per Container	20
Modules Per Pallet (pcs)	36
Modules Per Container (pcs)	720