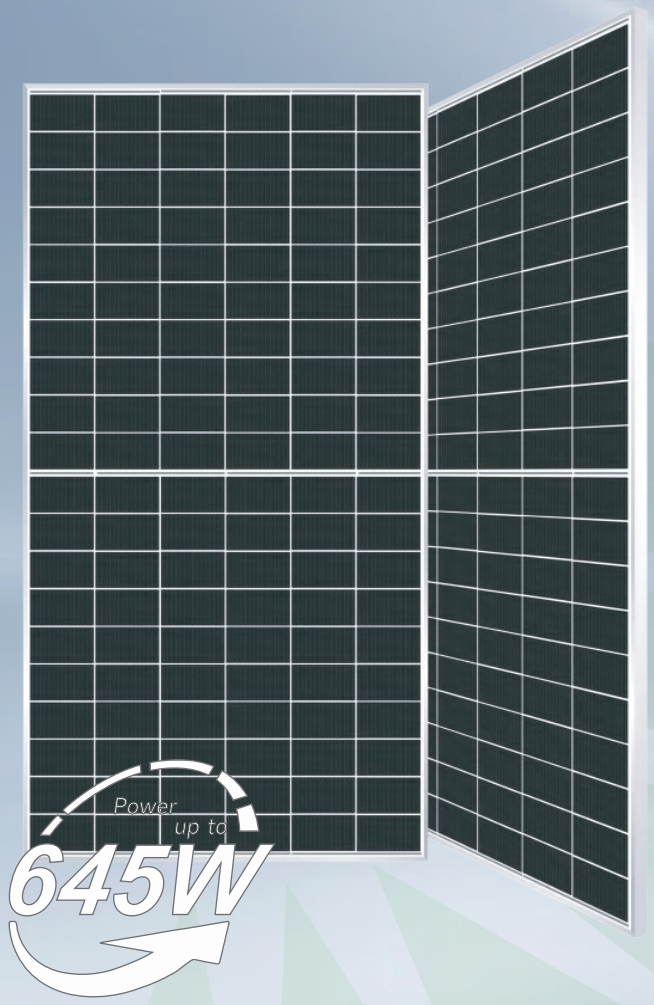
Thalesolar

HJT G12 Series
625-645W

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



HJT 2.0 Technology

Combining gettering process and single-side uc-Si technolog yto 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

SMBB

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

Up to 90% Bifaciality

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

Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extent 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 430-450W

120-cell Bifacial HJT Half Cell Module

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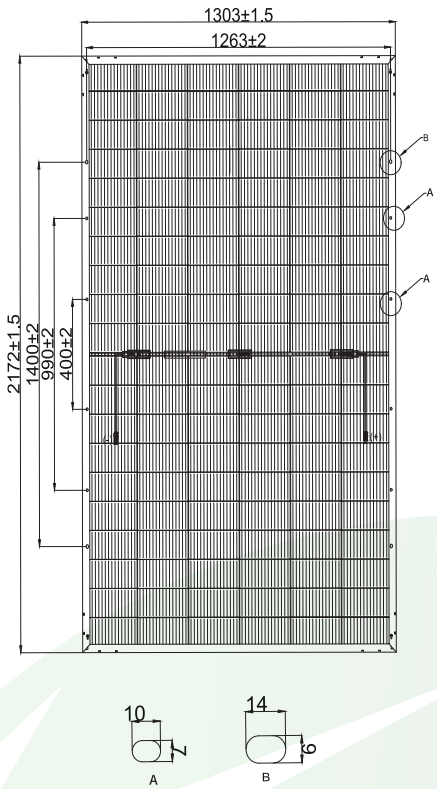
Engineering Drawings

Unit: mm



Electrical Characteristics (STC*)

THS-E60HND	625W	630W	635W	640W	645W
Maximum Power (Pmax)	625W	630W	635W	640W	645W
Module Efficiency (%)	22.08%	22.26%	22.44%	22.61%	22.79%
Optimum Operating Voltage(Vmp)	37.86V	38.03V	38.19V	38.35V	38.51V
Optimum Operating Current (Imp)	16.51A	16.57A	16.63A	16.69A	16.75A
Open Circuit Voltage (Voc)	45.13V	45.30V	45.48V	45.65V	45.82V
Short Circuit Current (Isc)	17.31A	17.37A	17.43A	17.49A	17.55A
Operating Module Temperature	-40 to +85℃				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	85%±5%				

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

BSTC*

Maximum Power (Pmax)	690W	695W	700W	705W	710W
Optimum Operating Voltage(Vmp)	37.86V	38.03V	38.19V	38.35V	38.51V
Optimum Operating Current (Imp)	18.23A	18.28A	18.33A	18.39A	18.4A
Open Circuit Voltage (Voc)	45.13V	45.30V	45.48V	45.65V	45.82V
Short Circuit Current (Isc)	19.11A	19.16A	19.21A	19.27A	19.32A

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

Temperature Characteristics

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

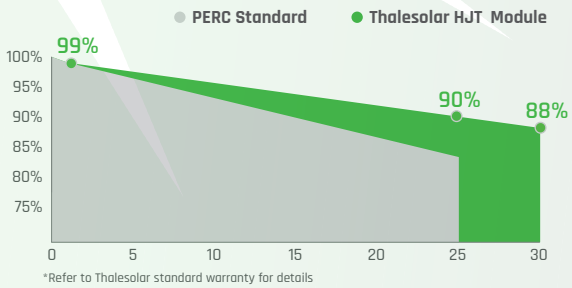
Mechanical Characteristics

Cell Type	HJT Mono 210X105mm
Cell Connection	120(6X20)
Module Dimension	2172X1303X35mm
Weight	35.3kg
Junction Box	IP68
Output Cable	4mm², 300mm in length, length can be customized/UV resistant
Connectors Type	MC4 original/MC4 compatible
Frame	Anodised aluminum alloy(Black)
Encapsulant	POE/EPE
Front Load	5400Pa
Rear Load	2400Pa
Glass Thickness	Double solar glass 2.0mm/1.6mm

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

Shipping Configurations

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

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