

## PERC G10 Series 535-555W

144-cell PERC Half Cell Solar Module



Power up to  
**555W**



### SMBB design with Half-Cut Technology

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



### 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 **20** years

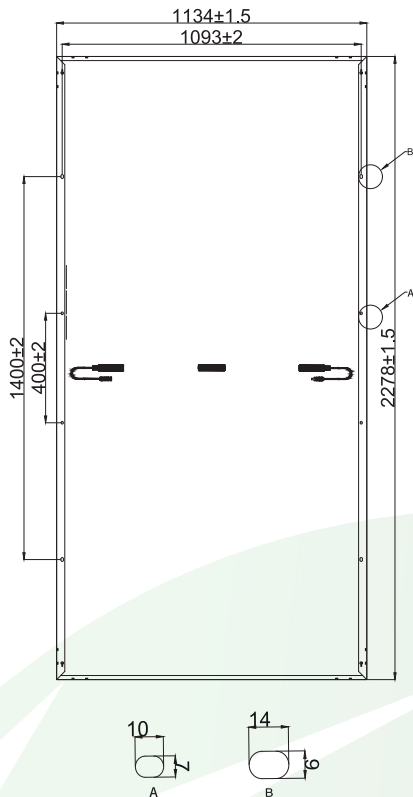
Linear  
Power  
Warranty **30** years



## PERC G10 Series 535-555W 144-cell PERC Module

### Engineering Drawings

Unit: mm



### Electrical Characteristics (STC\*)

THS-D72HP	535W	540W	545W	550W	555W
Maximum Power (P <sub>max</sub> )	535W	540W	545W	550W	555W
Module Efficiency (%)	20.71%	20.90%	21.10%	21.29%	21.48%
Optimum Operating Voltage(V <sub>mp</sub> )	41.87V	42.09V	42.32V	42.54V	42.79V
Optimum Operating Current (I <sub>mp</sub> )	12.78A	12.83A	12.88A	12.93A	12.98A
Open Circuit Voltage (V <sub>oc</sub> )	49.78V	49.91V	50.12V	50.34V	50.56V
Short Circuit Current (I <sub>sc</sub> )	13.53A	13.58A	13.63A	13.68A	13.73A
Operating Module Temperature	-40 to +85°C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
Power Tolerance	0~+5W				

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM=1.5. Tolerance of P<sub>max</sub> is within +/- 3%.

### NMOT\*

	405W	409W	412W	416W	420W
Maximum Power (P <sub>max</sub> )	405W	409W	412W	416W	420W
Optimum Operating Voltage(V <sub>mp</sub> )	38.72V	38.96V	39.13V	39.32V	39.55V
Optimum Operating Current (I <sub>mp</sub> )	10.46A	10.50A	10.53A	10.58A	10.62A
Open Circuit Voltage (V <sub>oc</sub> )	46.29V	46.42V	46.61V	46.82V	47.02V
Short Circuit Current (I <sub>sc</sub> )	11.07A	11.11A	11.16A	11.20A	11.24A

\*NMOT: Front side irradiation 800W/m<sup>2</sup>, wind speed 1m/s, ambient temperature 20°C.

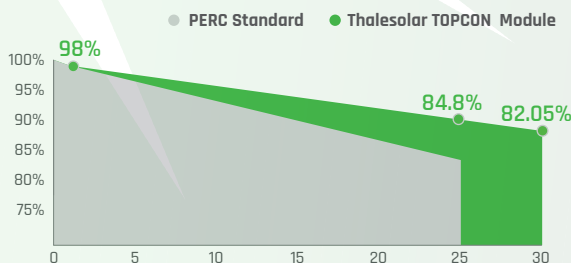
### Temperature Characteristics

Nominal Operating Cell Temp.(NOCT)	45°C ± 2°C
Temperature Coefficient of P <sub>max</sub>	-0.35%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.275%/°C
Temperature Coefficient of I <sub>sc</sub>	0.05%/°C

### Safety & Warranty

Safety Class	Class II
Product Warranty	20 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

\*Less than 2% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.55%, and the power is no less than 82.05% until the 30th year.



\*Refer to Thalesolar standard warranty for details

### Mechanical Characteristics

Cell Type	PERC Mono 182X91mm
Cell Connection	144(6X24)
Module Dimension	2278X1134X35mm
Weight	28.5kg
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , 300mm in length, length can be customized/UV resistant
Connectors Type	MC4 original/MC4 compatible
Frame	Anodised aluminum alloy
Encapsulant	EVA
Front Load	5400Pa
Rear Load	2400Pa
Glass Thickness	Solar glass 3.2mm

### Shipping Configurations

Container Type	HC
Container Size	40'
Pallets Per Container	20
Modules Per Pallet (pcs)	31
Modules Per Container (pcs)	620