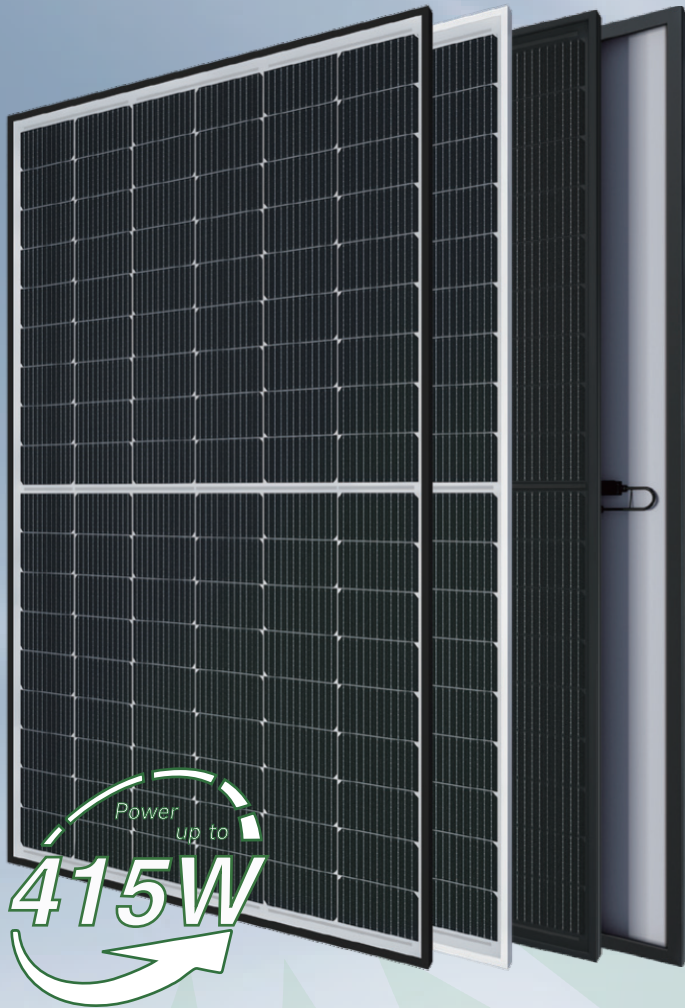


## PERC G10 Series 395-415W

108-cell PERC Half Cell Solar Module



### 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 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 **20** years

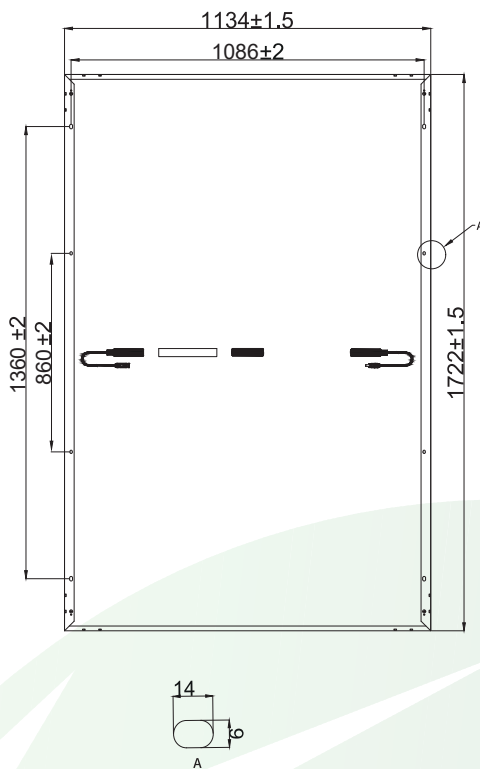
Linear Power Warranty **30** years



## PERC G10 Series 395-415W 108-cell PERC Module

### Engineering Drawings

Unit: mm



### Electrical Characteristics (STC\*)

THS-D54HP	395W	400W	405W	410W	415W
Maximum Power (Pmax)	395W	400W	405W	410W	415W
Module Efficiency (%)	20.23%	20.48%	20.74%	21.00%	21.25%
Optimum Operating Voltage(Vmp)	31.30V	31.38V	31.45V	31.52V	31.59V
Optimum Operating Current (Imp)	12.62A	12.70A	12.78A	12.86A	12.94A
Open Circuit Voltage (Voc)	37.04V	37.13V	37.21V	37.29V	37.36V
Short Circuit Current (Isc)	13.47A	13.60A	13.73A	13.86A	13.99A
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 Pmax is within +/- 3%.

### NMOT\*

Maximum Power (Pmax)	299W	303W	307W	310W	314W
Optimum Operating Voltage(Vmp)	28.70V	28.94V	29.19V	29.36V	29.62V
Optimum Operating Current (Imp)	10.42A	10.47A	10.52A	10.56A	10.60A
Open Circuit Voltage (Voc)	34.35V	34.58V	34.81V	35.03V	35.26V
Short Circuit Current (Isc)	11.03A	11.08A	11.13A	11.18A	11.23A

\*\*NMOT: Irradiation 800W/m<sup>2</sup>, wind speed 1m/s, AM=1.5, ambient temperature 20°C.

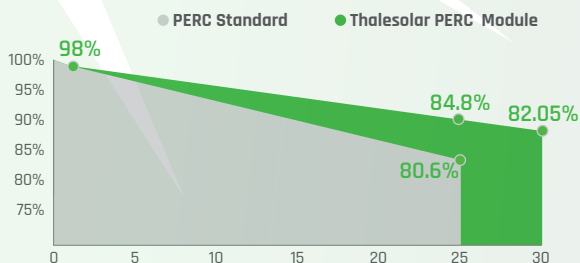
### Temperature Characteristics

Nominal Operating Cell Temp.(NOCT)	45°C ± 2°C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Isc	0.05%/°C

### Safety & Warranty

Safety Class	Class II
Product Warranty	30 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 182X91mm
Cell Connection	108(6X18)
Module Dimension	1722X1134X30mm
Weight	20.5kg
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , 1200mm 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	26
Modules Per Pallet (pcs)	36
Modules Per Container (pcs)	936