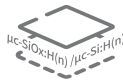


# ONYX HJT G12 Series

## 695-715W

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.



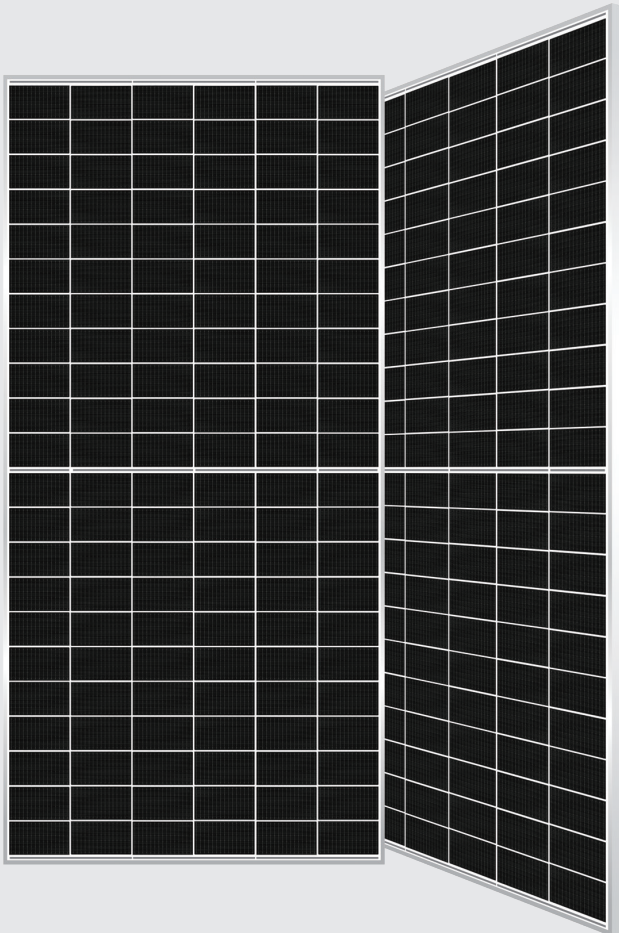
### Higher reliability

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



### Suitable for Utility project

Lower BOS cost, lower LCOE.



## WARRANTY

Product  
Warranty **30**  
years

Linear  
Power  
Warranty **30**  
years



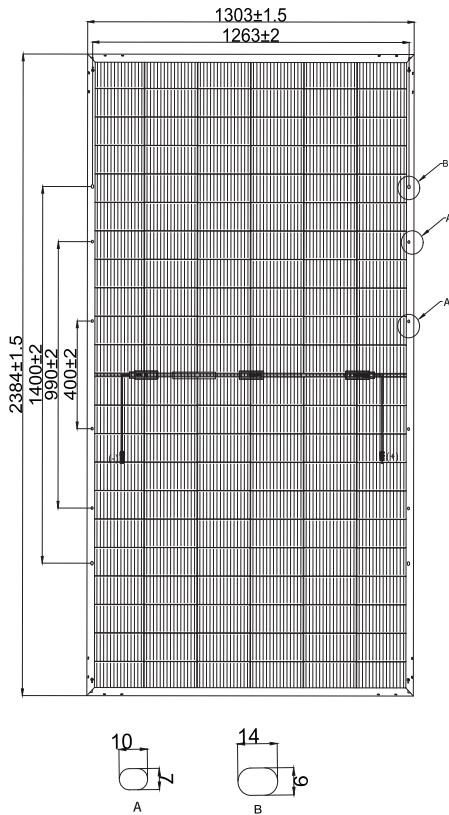
# ONYX HJT G12 Series 695-715W

132-cell Bifacial HJT Solar Half Cell Module



## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

Part Number	HJ695W	HJ700W	HJ705W	HJ710W	HJ715W
Maximum Power (Pmax)	695W	700W	705W	710W	715W
Module Efficiency (%)	22.37%	22.53%	22.70%	22.86%	23.02%
Optimum Operating Voltage (Vmp)	41.95V	42.10V	42.25V	42.39V	42.54V
Optimum Operating Current (Imp)	16.57A	16.63A	16.69A	16.75A	16.81A
Open Circuit Voltage (Voc)	49.98V	50.13V	50.29V	50.44V	50.59V
Short Circuit Current (Isc)	17.37A	17.43A	17.49A	17.55A	17.61A
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/m<sup>2</sup>, cell temperature 25 C, AM=1.5. Tolerance of Pmax is within +/- 3%.

## BSTC\*\*

Maximum Power (Pmax)	765W	770W	775W	780W	785W
Optimum Operating Voltage (Vmp)	41.95V	42.10V	42.25V	42.39V	42.54V
Optimum Operating Current (Imp)	18.24A	18.29A	18.35A	18.41A	18.46A
Open Circuit Voltage (Voc)	49.98V	50.13V	50.29V	50.44V	50.59V
Short Circuit Current (Isc)	19.12A	19.17A	19.22A	19.28A	19.33A

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25 C.

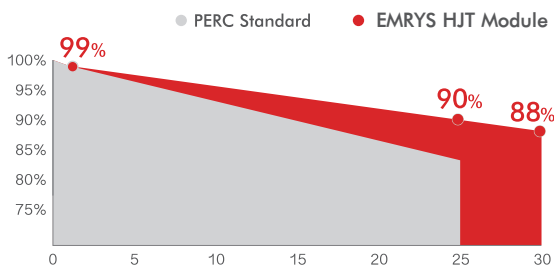
## Temperature Characteristics

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	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 EMRYS standard warranty for details

## 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 <sup>2</sup> , 300mm in length, length can be customized / UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy
Encapsulant	EPE
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	(F) 2.0mm anti-reflective solar glass   (B) 2.0mm solar glass

## Shipping Configurations

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