

# **TOPCON G10 Series** 590-610W

132-cell Bifacial TOPCon Half Cell **Double-glass Solar Module** 





## **TOPCon Cell Technology**

N-type with very Lower LID, Better low irradiance response



### SMBB design with Half-Cut Technology

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



## Up to 90% Bifaciality

Natrual symmetrical bifacial structure bringing more energy



### Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extent



### **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 3

Linear Power

Warranty 30 years



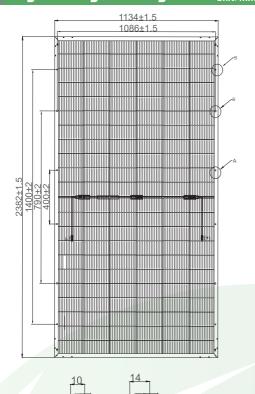






## TOPCon G10 Series 590-610W 132-cell Bifacial TOPCON Half Cell Module

#### **Engineering Drawings** Unit: mm



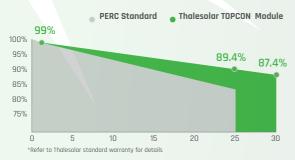
## **Temperature Characteristics**

43°C±2°C
-0.30%/°C
-0.26%/°C
0.046%/°C

## Safety & Warranty

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

<sup>\*</sup>Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.4%, and the power is no less than 87.4% until the 30th year



## Electrical Characteristics (STC\*)

THS-F66HND		590W	595W	600W	605W	610W
Maximum Power (Pr	nax)	590W	595W	600W	605W	610W
Module Efficiency	(%)	21.8%	22.0%	22.2%	22.4%	22.6%
Optimum Operating Voltage(V	mp)	39.68V	39.80V	39.92V	40.06V	40.18V
Optimum Operating Current (	lmp)	14.87A	14.95A	15.03A	15.10A	15.18A
Open Circuit Voltage (	Voc)	47.51V	47.68V	47.86V	48.06V	48.26V
Short Circuit Current	(Isc)	15.69A	15.75A	15.81A	15.87A	15.93A
Operating Module Temperatur	e	-40 to +85°C				
Maximum System Voltage		DC1500V (IEC)				
Maximum Series Fuse		30A				
Power Tolerance		0~+5W				
Bifaciality	80%±10%					

<sup>\*</sup>STC: Irradiance 1000 W/m², cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/- 3%.

BSTC*						
Maximum Power	(Pmax)	654W	659W	663W	669W	673W
Optimum Operating Voltage	e(Vmp)	39.68V	39.80V	39.92V	40.06V	40.18V
Optimum Operating Current	t (Imp)	16.47A	16.54A	16.61A	16.67A	16.74A
Open Circuit Voltage	(Voc)	47.51V	47.68V	47.86V	48.06V	48.26V
Short Circuit Current	(Isc)	17.38A	17.45A	17.52A	17.59A	17.66A

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

## **Mechanical Characteristics**

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Cell Type	TOPCon Mono 210X91mm					
Cell Connection	132(6X24)					
Module Dimension	2382X1134X30mm					
Weight	32.5kg					
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					
Encapsulant	POE/EPE					
Front Load	5400Pa					
Rear Load	2400Pa					
Glass Thickness	Double solar glass 2.0mm					

## **Shipping Configurations**

Container Type			HC	
Container Size			40'	
Pallets Per Container			18	
Modules Per Pallet	(pcs)		36	
Modules Per Container	(pcs)		648	

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