

TOPCON G12 Series 565-585W

144-cell TOPCon Half Cell 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 **25** years

Linear Power

Power Warranty 30 years





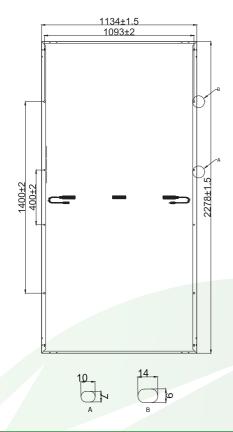




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Engineering Drawings



Temperature Characteristics

Nominal Operating Cell Temp.(NOCT)	43°C ± 2°C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.046%/°C

Safety & Warranty

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Safety Class	Class II
Product Warranty	25 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 0.4%, and the power is no less than 87.4% until the 30th year



Electrical Characteristics (STC*)

THS-D72HN	565W	570W	575W	580W	585W
Maximum Power (Pmax)	565W	570W	575W	580W	585W
Module Efficiency (%)	22.9%	22.1%	22.3%	22.5%	22.6%
Optimum Operating Voltage(Vmp)	43.53V	43.68V	43.83V	43.98V	44.13V
Optimum Operating Current (Imp)	12.98A	13.05A	13.12A	13.19A	13.26A
Open Circuit Voltage (Voc)	51.33V	51.48V	51.64V	51.79V	51.92V
Short Circuit Current (Isc)	13.57A	13.64A	13.71A	13.78A	13.85A
Operating Module Temperature		-	40 to +85°C		
Maximum System Voltage		D	C1500V (IEC)		
Maximum Series Fuse			25A		
Power Tolerance			0~+5W		

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

NMOT* Maximum Power (Pmax) 430W 433W 437W 441W 445W Optimum Operating Voltage(Vmp) 40.8V 41.0V 41.2V 41.4V 41.6V Optimum Operating Current (Imp) 10.54A 10.56A 10.61A 10.70A 10.65A Open Circuit Voltage (Voc) 48.7V 48.9V 49.1V 49.2V 49.3V Short Circuit Current (Isc) 11.60A 11.40A 11.47A 11.53A 11.67A

Mechanical Characteristics

Connectors Type MC4 original/MC4 compatible	Cell Type	TOPCon Mono 182X91mm
Weight 28.5kg Junction Box IP68 Output Cable 4mm², 300mm in length, length can be customized/UV resistar Connectors Type MC4 original/MC4 compatible	Cell Connection	144(6X24)
Junction Box IP68 Output Cable 4mm², 300mm in length, length can be customized/UV resistar Connectors Type MC4 original/MC4 compatible	Module Dimension	2278X1134X35mm
Output Cable 4mm², 300mm in length, length can be customized/UV resistar Connectors Type MC4 original/MC4 compatible	Weight	28.5kg
Connectors Type MC4 original/MC4 compatible	Junction Box	IP68
	Output Cable	mm ² , 300mm in length, length can be customized/UV resistant
Frame Anodised aluminum allov	Connectors Type	MC4 original/MC4 compatible
	Frame	Anodised aluminum alloy
Encapsulant POE/EPE	Encapsulant	POE/EPE
Front Load 5400Pa	Front Load	5400Pa
Rear Load 2400Pa	Rear Load	2400Pa
Glass Thickness Solar glass 3.2mm	Glass Thickness	Solar glass 3.2mm

Shippina Configurations

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

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^{*}NMOT: Front side irradiation 800W/m², wind speed 1m/s, ambient temperature 20°C.