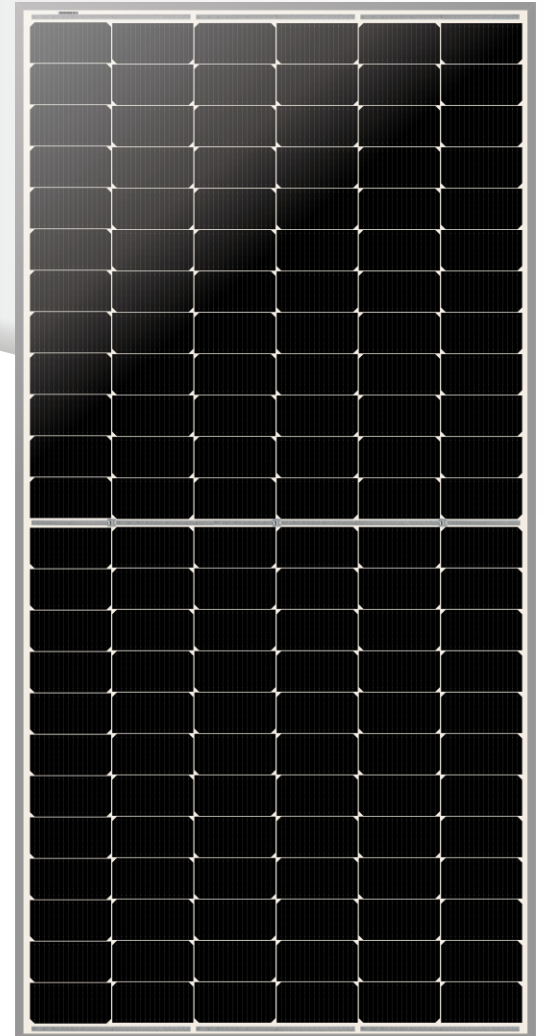
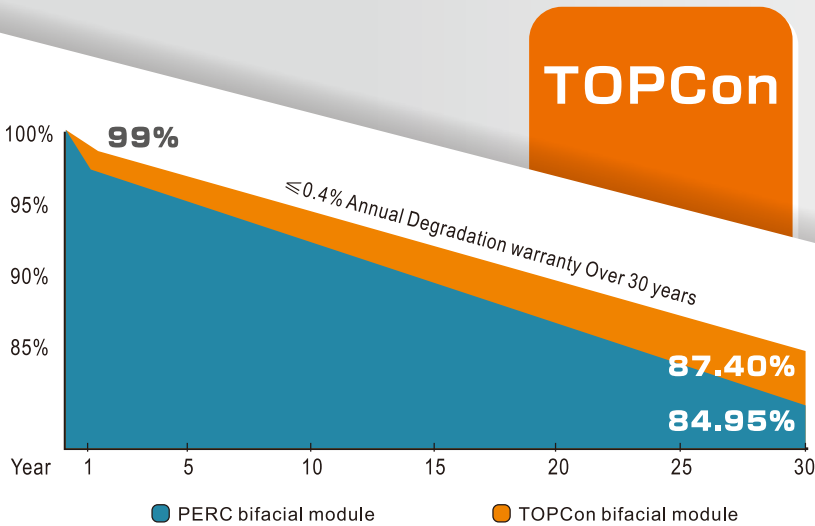


# DOUBLE-GLASS BIFACIAL N-TYPE 580~595Watt



### Bifacial Mono Module

Capable of generating power at back side, at least 80% efficiency of the front side



### Anti-PID (potential induced degradation)

Passed anti-PID test under 85% damp heat 85% relative humidity for 192 hours



### Great Durability against extreme conditions

Passed salt mist corrosion test, ammonia corrosion test, dust & sand test, fire test, all certified by TÜV



### Lower LCOE

Lower shading and resistive loss  
Lower temperature coefficient



### Outstanding mechanical load resistance

2400 Pa wind load, 5400 Pa snow load



15-year product warranty

30-year linear power output



CEC Listed



IEC 61215, IEC 61730

ISO 9001: 2015 (Quality management systems)

ISO 14001: 2015 (Environmental management systems)

ISO 45001: 2018 (Occupational health and safety)

UNI 9177 Ia CLASSE DI REAZIONE AL FUOCO: 1



# TOPCon(N TYPE) 580~595Watt



## ELECTRICAL SPECIFICATIONS

Module Type	UL-580M-144ADGN		UL-585M-144ADGN		UL-590M-144ADGN		UL-595M-144ADGN	
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*
Maximum Power (Pmax)	W 580	440	585	443	590	447	595	451
Maximum Power Voltage (Vmp)	V 44.02	40.50	44.17	40.64	44.35	40.80	44.55	40.99
Maximum Power Current (Imp)	A 13.18	10.85	13.24	10.91	13.30	10.96	14.36	11.00
Open-circuit Voltage (Voc)	V 52.52	47.79	52.72	47.98	52.82	48.07	52.92	48.16
Short-circuit Current (Isc)	A 13.95	11.25	14.01	11.30	14.02	11.31	14.06	11.34
Module Efficiency STC	% 22.45		22.65		22.84		23.03	
Operating Temperature	-40°C~85°C							
Maximum system voltage	DC1500V(IEC)							
Maximum series fuse rating	30A							
Power tolerance	0~+5Watt							
Temperature coefficients of Pmax	-0.29%/°C							
Temperature coefficients of Voc	-0.25%/°C							
Temperature coefficients of Isc	0.046%/°C							
Nominal operating cell temperature (NOCT)	43±2°C							

\*STC : Cell temperature: 25°C, Irradiance: 1000 W/m², Air mass: 1.5G

\*NOCT : Air temperature: 20°C, Irradiance: 800 W/m², Air mass: 1.5G, Wind speed: 1 m/s

## SPECIFICATIONS

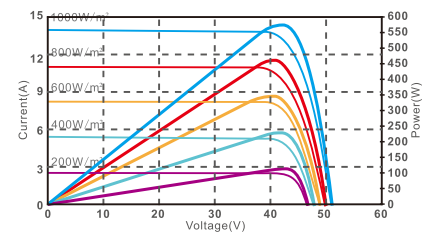
Cell Type	N type Mono-crystalline
No. of cells	144(6×12×2)
Dimensions	2278*1134*30mm
Weight	30.6kg
Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible
Cable Length (including Connector)	Portrait: (+)400/(-)200mm Landscape: (+)1400/(-)1400mm
Packaging Configuration	Two Box=One Pallet 36pcs/Box, 72pcs/Pallet, 720pcs/40HQ Container

## Electrical characteristics with different rear side power gain (reference to 580 W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
580	52.52	13.95	44.02	13.18	0
609	52.52	14.65	44.02	13.83	5%
638	52.52	15.35	44.02	14.49	10%
667	52.52	16.04	44.02	15.15	15%
696	52.52	16.74	44.02	15.81	20%
725	52.52	17.44	44.02	16.47	25%
754	52.52	18.14	44.02	17.13	30%

## I-V CURVE [575W]

I-V characteristics at different irradiances



I-V characteristics at different temperature

