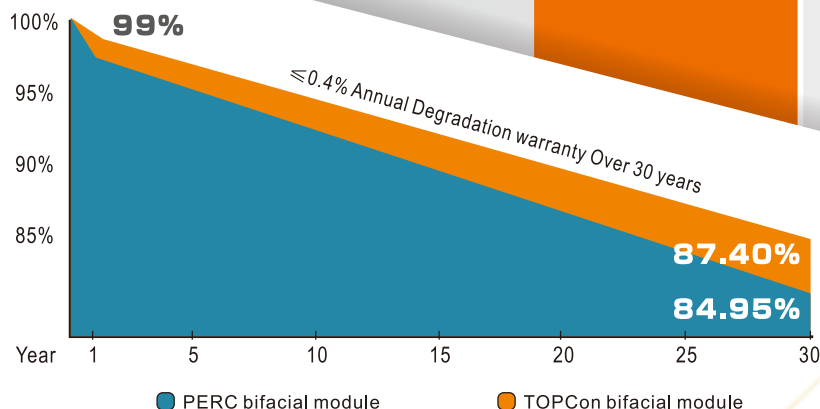


DOUBLE-GLASS BIFACIAL N-TYPE 580~595Watt



TOPCon



Bifacial Mono Module

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



PID
FREE

Anti-PID (potential induced degradation)

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



TÜV

Great Durability against extreme conditions

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



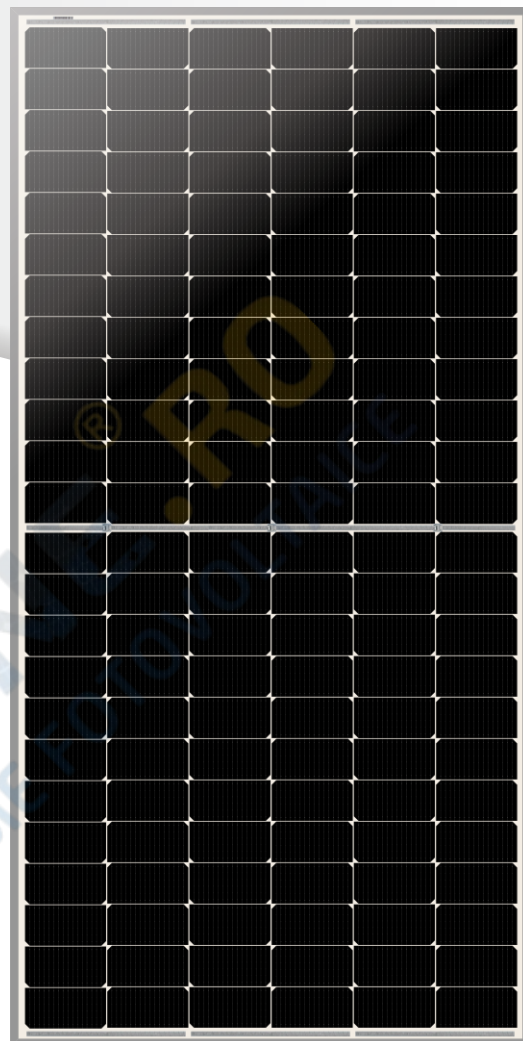
Lower LCOE

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)

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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℃~85℃				
Maximum system voltage					DC1500V(IEC)				
Maximum series fuse rating					30A				
Power tolerance					0~+5Watt				
Temperature coefficients of Pmax					-0.29%/℃				
Temperature coefficients of Voc					-0.25%/℃				
Temperature coefficients of Isc					0.046%/℃				
Nominal operating cell temperature (NOCT)					43±2℃				

*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

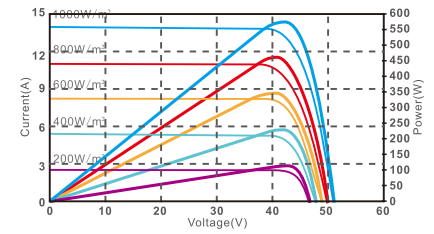
Cell Type	N type Mono-crystalline	
No. of cells	144(6×12×2)	
Dimensions	2278*1134*30mm	
Weight	30.6kg	
Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Junction Box	IP68, 3 diodes	
Connector	MC4 Compatible	
Cable Length (including Connector)	Portrait: (+)400/(-)200mm 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)

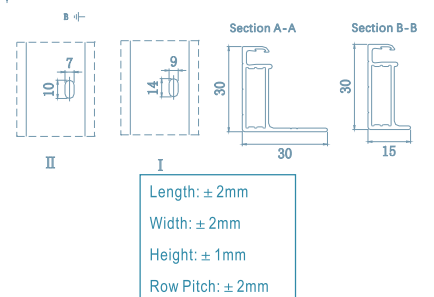
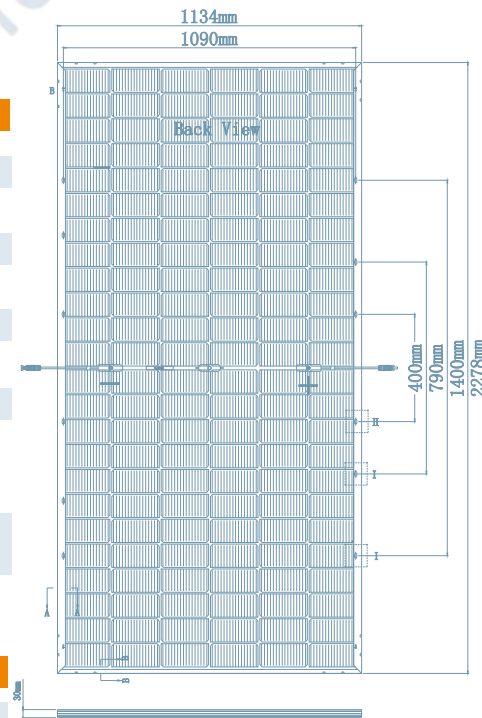
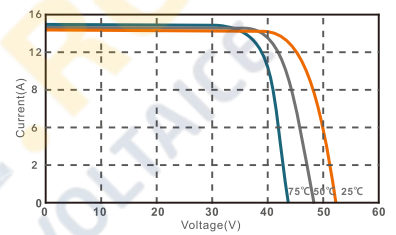
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
580	52.52	13.95	44.02	13.18	0
609	52.52	14.65	44.02	13.83	5%
638	52.52	15.35	44.02	14.49	10%
667	52.52	16.04	44.02	15.15	15%
696	52.52	16.74	44.02	15.81	20%
725	52.52	17.44	44.02	16.47	25%
754	52.52	18.14	44.02	17.13	30%

I-V CURVE[575W]

I-V characteristics at different irradiances



I-V characteristics at different temperature



Specifications included in this datasheet are subject to change without notice.

Ulica Solar reserves the right of final interpretation.

