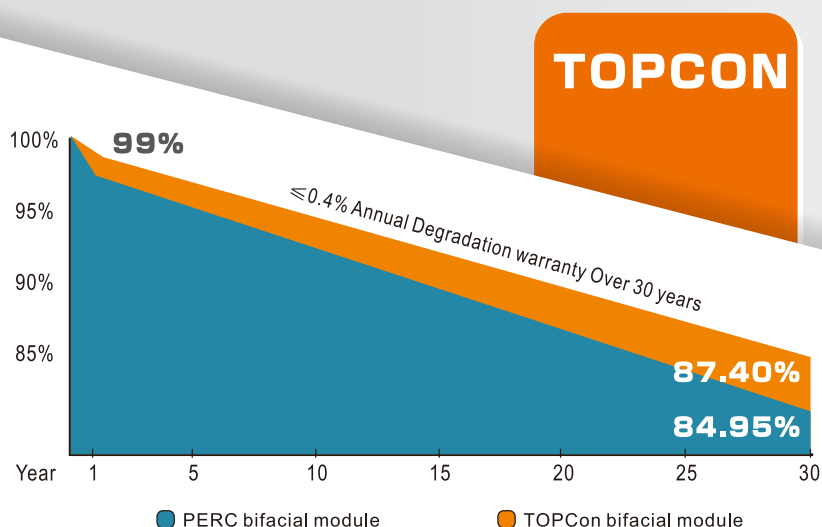


DOUBLE-GLASS BIFACIAL N-TYPE 490~500 Watt



Cutting Free Technology
Minimized micro-crack



Anti-PID (potential induced degradation)
Passed anti-PID test under 85% damp heat
85% relative humidity for 192 hours



Higher Power Output
Lower shading and resistive loss



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) 490~500Watt



ELECTRICAL SPECIFICATIONS

Module Type		UL-490M-120BDGN		UL-495M-120BDGN		UL-500M-120BDGN	
		STC*	NOCT*	STC*	NOCT*	STC*	NOCT*
Maximum Power (Pmax)	W	490	371	495	375	500	379
Maximum Power Voltage (Vmp)V		36.68	33.75	36.85	33.90	37.02	34.06
Maximum Power Current (Imp) A		13.36	11.00	13.43	11.06	13.51	11.13
Open-circuit Voltage (Voc)	V	43.35	39.45	43.52	39.60	43.78	39.84
Short-circuit Current (Isc)	A	14.35	11.58	14.43	11.64	14.48	11.68
Module Efficiency STC	%	22.14		22.36		22.59	
Operating Temperature				-40°C~85°C			
Maximum system voltage				DC1500V(IEC)			
Maximum series fuse rating				30A			
Power tolerance				0~+5 Watt			
Temperature coefficients of Pmax				-0.29%/°C			
Temperature coefficients of Voc				-0.250%/°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

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

SPECIFICATIONS

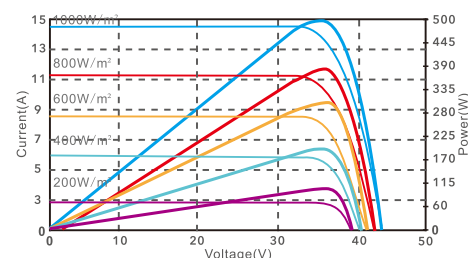
Cell Type	182.2×94mm N type Mono-crystalline		
No. of cells	120 (6×10×2)		
Dimensions	1952*1134*30mm		
Weight	26.2Kg		
Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass		
Junction Box	IP68, 3diodes		
Connector	MC4 Compatible		
Cable Length (Including Connector)	4mm² Portrait: (+)400 mm/(-) 200mm Landscape: (+) 1200mm/(-)1200 mm		
Packaging Configuration	Two Box=One pallet 36pcs/Box, 72pcs/Pallet, 864pcs/40HQ Container		

Electrical characteristics with different rear side power gain(reference to 500 W front)

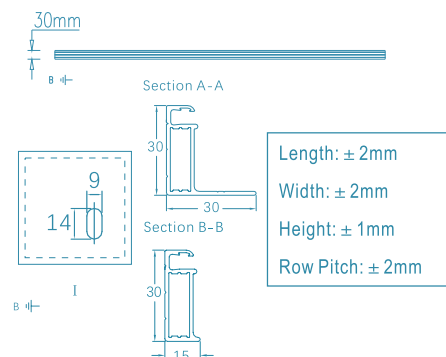
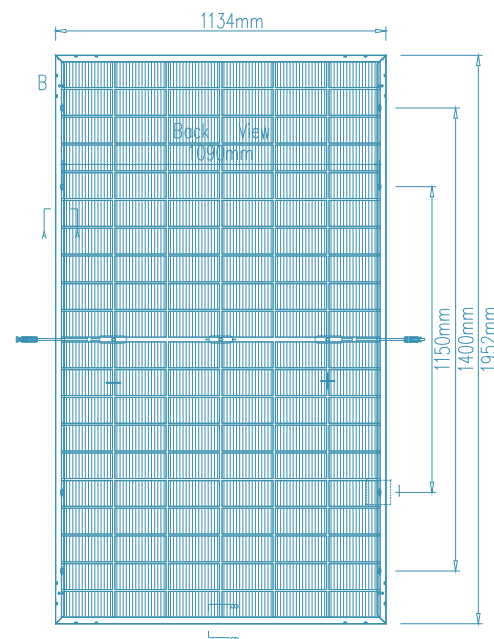
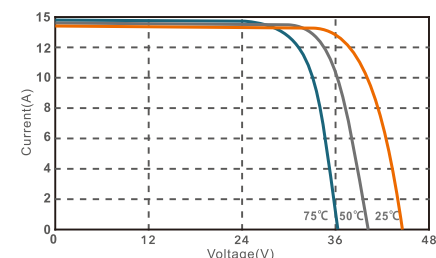
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
500	43.78	14.48	37.02	13.51	0
525	43.78	15.20	37.02	14.18	5%
550	43.78	15.93	37.02	14.86	10%
575	43.78	16.65	37.02	15.53	15%
600	43.78	17.38	37.02	16.21	20%
625	43.78	18.10	37.02	16.88	25%
650	43.78	18.82	37.02	17.56	30%

I-V CURVE[500W]

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.

