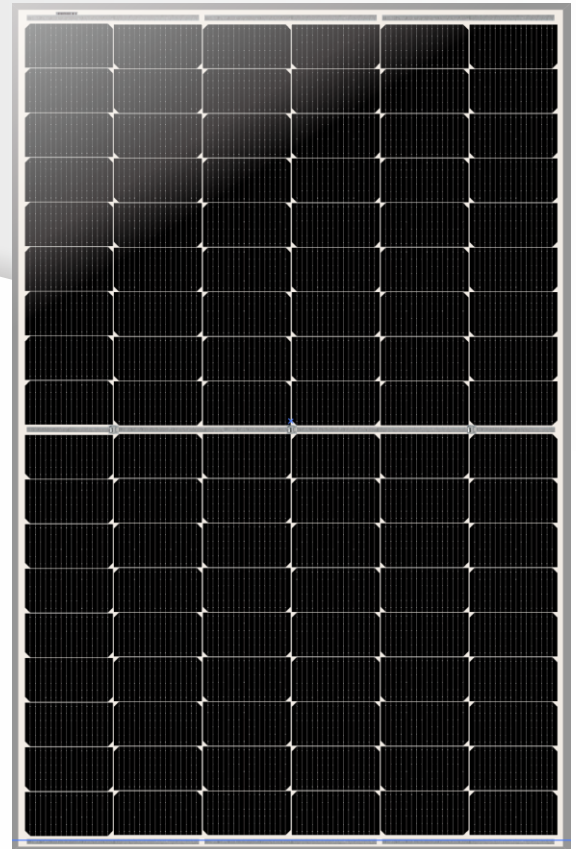
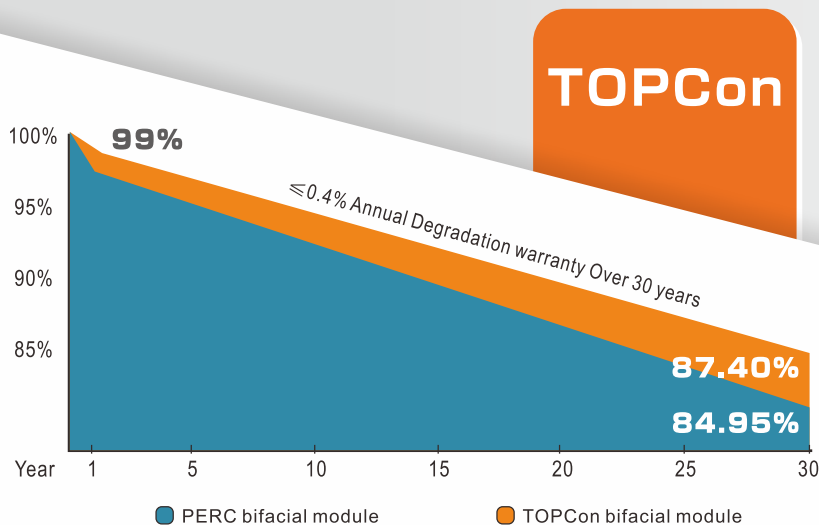


DOUBLE-GLASS BIFACIAL N-TYPE 430~445 Watt



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)

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TOPCon(N TYPE) 430~445Watt



ELECTRICAL SPECIFICATIONS

Module Type		UL-430M-108ADGN	UL-435M-108ADGN	UL-440M-108ADGN	UL-445M-108ADGN
		STC* NOCT*	STC* NOCT*	STC* NOCT*	STC* NOCT*
Maximum Power (Pmax)	W	430 326	435 330	440 333	445 443
Maximum Power Voltage (Vmp)	V	31.81 29.27	31.91 29.36	32.01 29.45	32.15 29.58
Maximum Power Current (Imp)	A	13.52 11.13	13.63 11.23	13.75 11.32	13.84 11.40
Open-circuit Voltage (Voc)	V	39.24 35.71	39.39 35.84	39.54 35.98	39.69 36.12
Short-circuit Current (Isc)	A	13.89 11.20	13.95 11.25	14.01 11.30	14.10 11.37
Module Efficiency STC	%	22.02	22.28	22.53	22.79
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

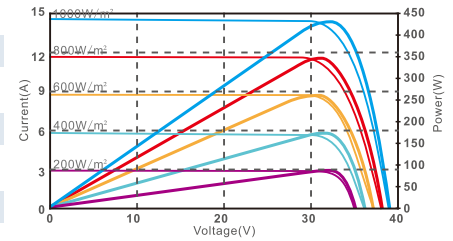
Cell Type	N type Mono-crystalline
No. of cells	108(6×9×2)
Dimensions	1722*1134*30mm
Weight	23.5kg
Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible 4mm²
Cable Length (including Connector)	Portrait: (+)400/(-)200mm Landscape: (+)1100/(-)1100mm
Packaging Configuration	Two Box=One Pallet 36pcs/Box, 72pcs/Pallet, 936pcs/40HQ Container

Electrical characteristics with different rear side power gain(reference to 440 W front)

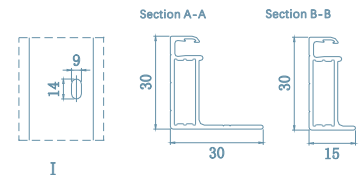
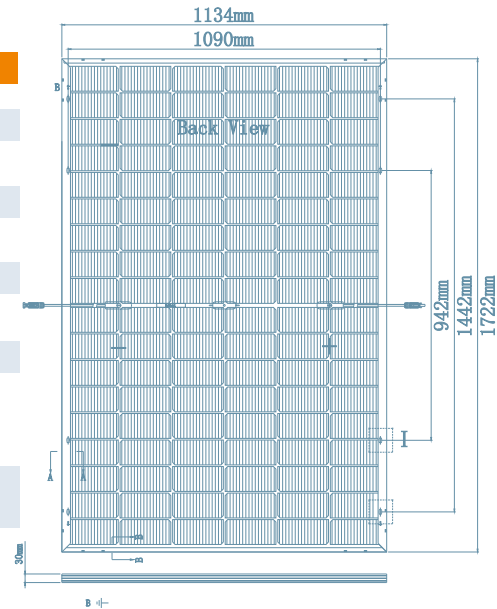
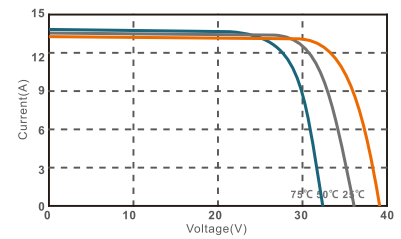
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
440	39.54	14.01	32.01	13.75	0
462	39.54	14.71	32.01	14.43	5%
484	39.54	15.41	32.01	15.12	10%
506	39.54	16.11	32.01	15.81	15%
528	39.54	16.81	32.01	16.49	20%
550	39.54	17.51	32.01	17.18	25%
572	39.54	18.21	32.01	17.87	30%

I-V CURVE[440W]

I-V characteristics at different irradiances



I-V characteristics at different temperature



Length: ± 2mm
Width: ± 2mm
Height: ± 1mm
Row Pitch: ± 2mm

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

Ulica Solar reserves the right of final interpretation.

