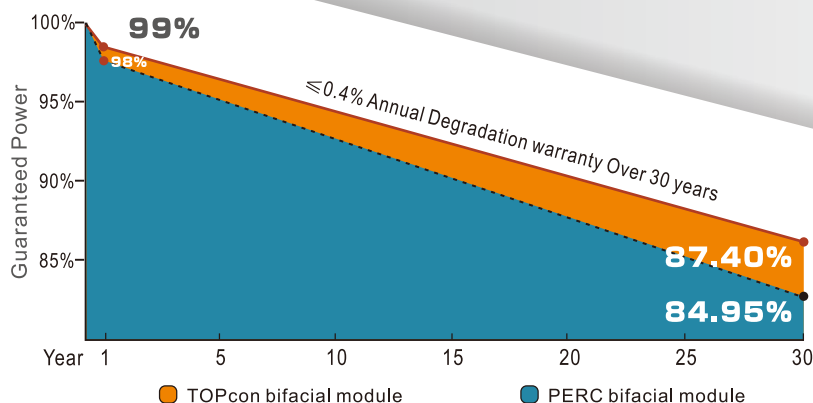


Black Jade Series

DOUBLE-GLASS BIFACIAL N-TYPE MODULE

430~440 W



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°C 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



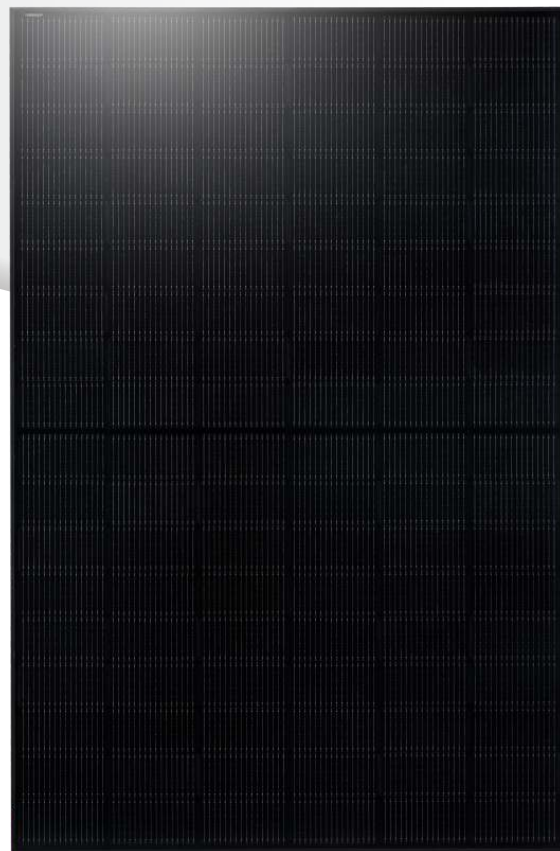
Lower LCOE

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 la CLASSE DI REAZIONE AL FUOCO:1



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TOPCon(N TYPE) 430~440Watt

ELECTRICAL SPECIFICATIONS

Module Type		UL-430M-108ADGN		UL-435M-108ADGN		UL-440M-108ADGN	
		STC* NOCT*		STC* NOCT*		STC* NOCT*	
Maximum Power (Pmax)	W	430	326	435	330	440	333
Maximum Power Voltage (Vmp)	V	31.81	29.27	31.91	29.36	32.01	29.61
Maximum Power Current (Imp)	A	13.52	11.13	13.63	11.23	13.75	11.26
Open-circuit Voltage (Voc)	V	39.24	35.71	39.39	35.84	39.54	35.98
Short-circuit Current (Isc)	A	13.89	11.20	13.95	11.25	14.01	11.30
Module Efficiency STC	%	22.02		22.28		22.53	
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

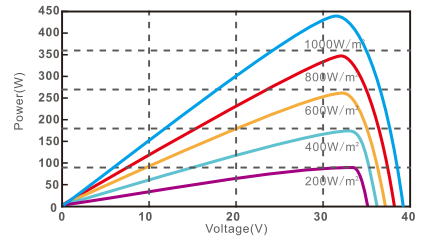
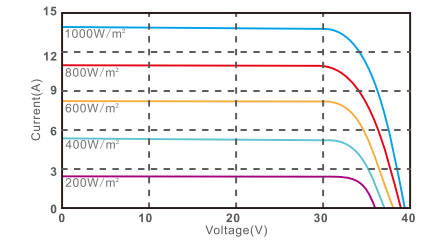
Cell Type	N type Mono-crystalline		
No. of cells	108(6×9×2)		
Dimensions	1722*1134*30mm		
Weight	23.5kg		
Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass		
Junction Box	IP68, 3 diodes		
Connector	MC4 Compatible		
Cable Length (including Connector)	4mm² Landscape: (+)1100mm/(-)1100mm or Customized Length		
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)

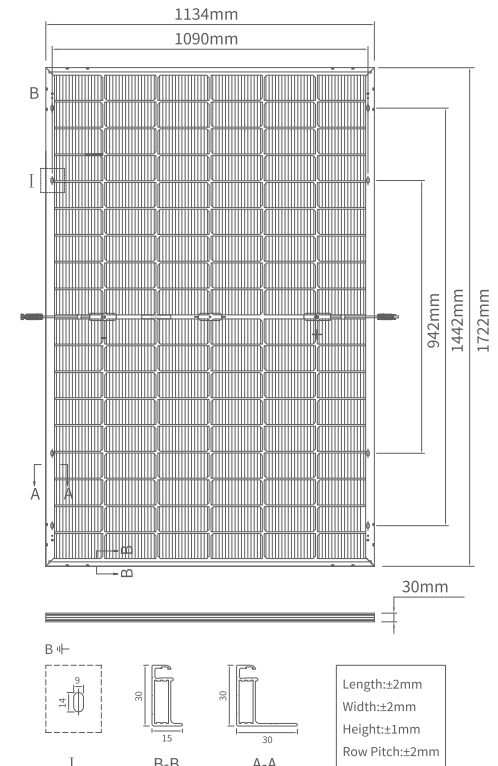
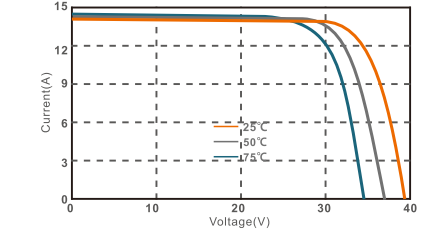
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
440	39.54	14.01	32.01	13.75	0%
462	39.54	14.71	32.01	14.44	5%
484	39.54	15.41	32.01	15.13	10%
506	39.54	16.11	32.01	15.81	15%
528	39.54	16.81	32.01	16.50	20%
550	39.54	17.51	32.01	17.19	25%
572	39.54	18.21	32.01	17.88	30%

I-V CURVE

I-V characteristics at different irradiatio (reference to 440 W)



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.

Version No.: UL-1722-108ADGNHHC-30-EN-V1.0