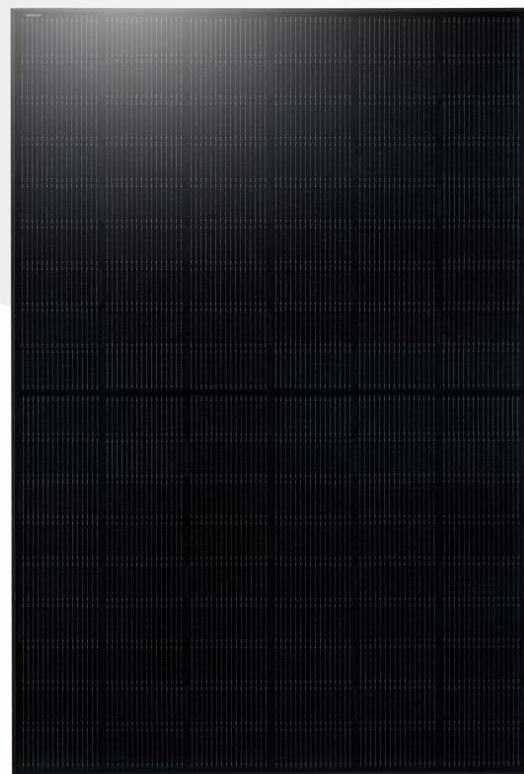
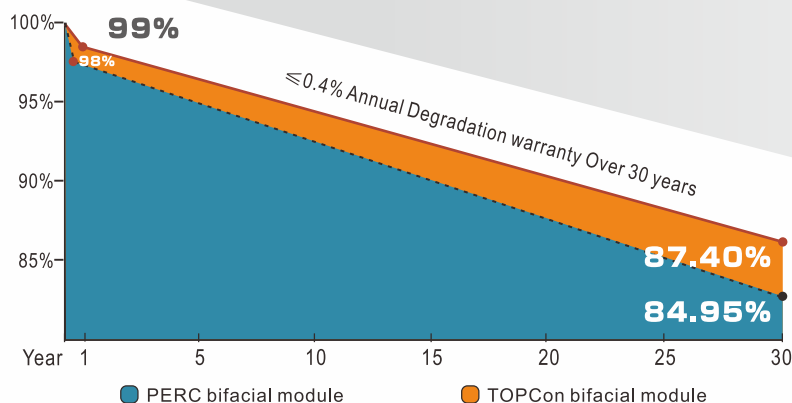


# Black Jade Series

## 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

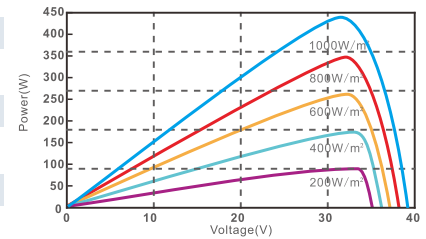
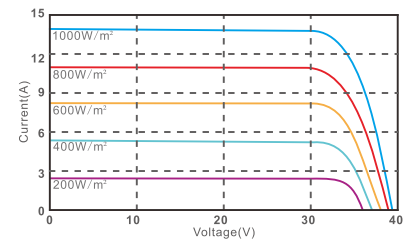
Cell Type	N type Mono-crystalline		
No. of cells	108(6×9×2)		
Dimensions	1722*1134*30mm		
Weight	23.5kg		
Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass		
Junction Box	IP68, 3diodes		
Connector	MC4 Compatible		
Cable Length (including Connector)	4mm² Landscape: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

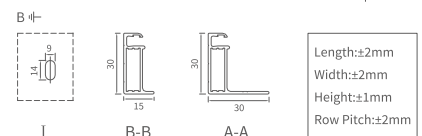
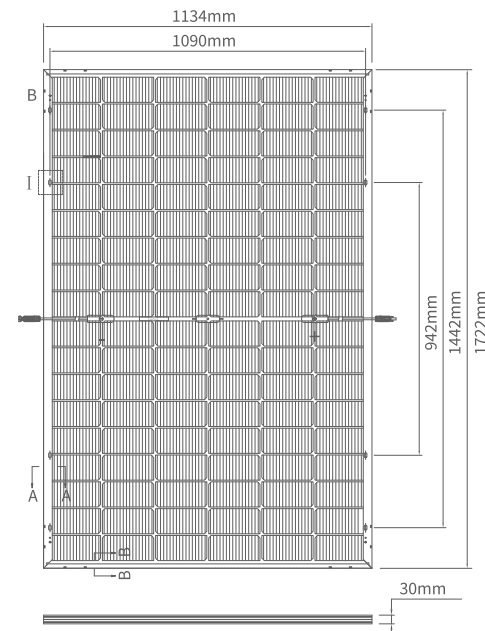
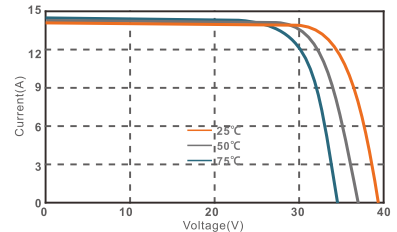
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
440	39.54	14.01	32.01	13.75	0%
462	39.54	14.71	32.01	14.44	5%
484	39.54	15.41	32.01	15.13	10%
506	39.54	16.11	32.01	15.81	15%
528	39.54	16.81	32.01	16.50	20%
550	39.54	17.51	32.01	17.19	25%
572	39.54	18.21	32.01	17.88	30%

## 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