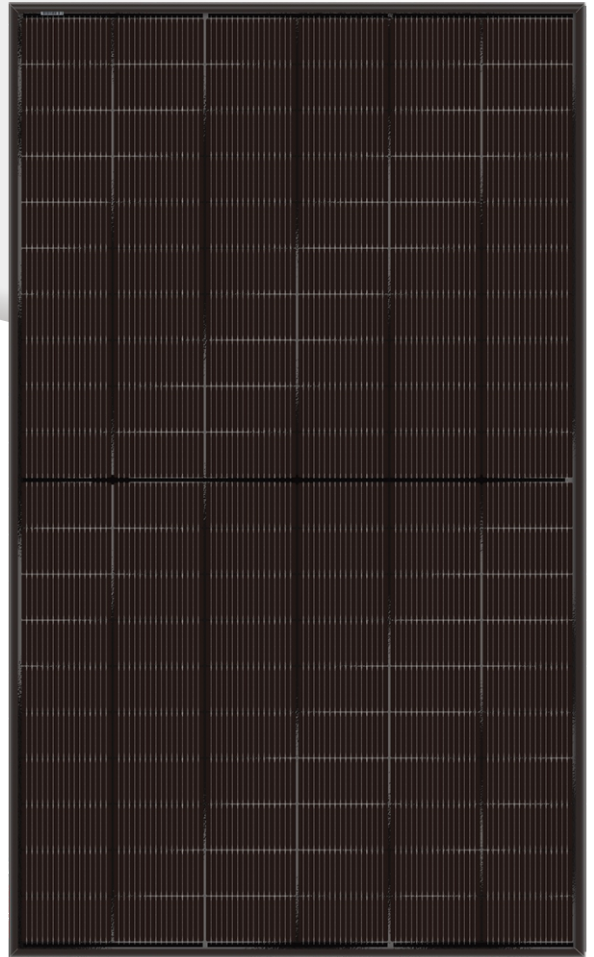
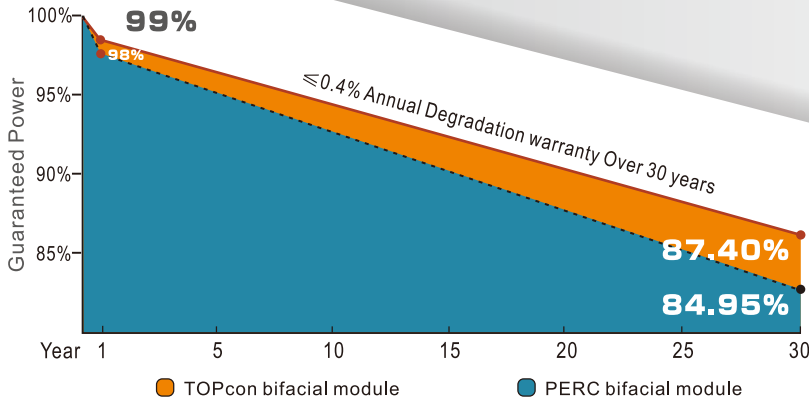


# Black Jade-Flow

DOUBLE-TRANSPARENT GLASS BIFACIAL N-TYPE MODULE

## 490~505 W



**Cutting Free Technology**  
Minimized micro-crack



**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



**Lower LCOE**  
Lower shading and resistive loss  
Lower temperature coefficient



**Outstanding mechanical load resistance**  
2400 Pa wind load, 5400 Pa snow load



**15** 15-year product warranty  
**30** 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) 490~505Watt



## ELECTRICAL SPECIFICATIONS

Module Type	UL-490M-120BDGN		UL-495M-120BDGN		UL-500M-120BDGN		UL-505M-120BDGN	
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*
Maximum Power (Pmax)	W 490	371	495	375	500	379	505	383
Maximum Power Voltage (Vmp)	V 36.68	33.75	36.85	33.90	37.02	34.06	37.18	34.21
Maximum Power Current (Imp)	A 13.36	11.00	13.43	11.06	13.51	11.13	13.58	11.19
Open-circuit Voltage (Voc)	V 43.35	39.45	43.52	39.60	43.78	39.84	43.98	40.02
Short-circuit Current (Isc)	A 14.35	11.58	14.43	11.64	14.48	11.68	14.54	11.73
Module Efficiency STC	% 22.14		22.36		22.59		22.81	
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	-0.25%/°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

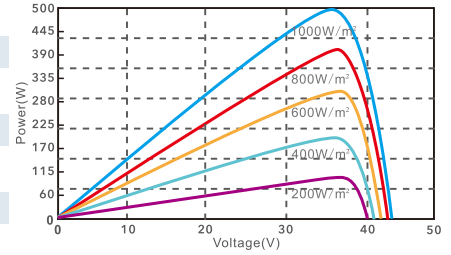
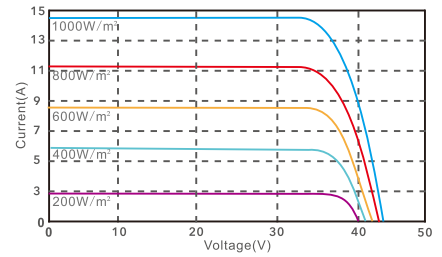
Cell Type	N type Mono-crystalline
No. of cells	120(6×10×2)
Dimensions	1952*1134*30mm
Weight	26.5kg
Front Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible
Cable Length (Including Connector)	4mm² Landscape: (+)1200mm/(-)1200mm or Customized Length
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)

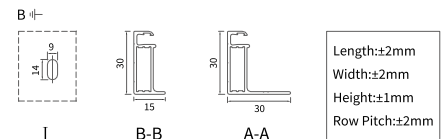
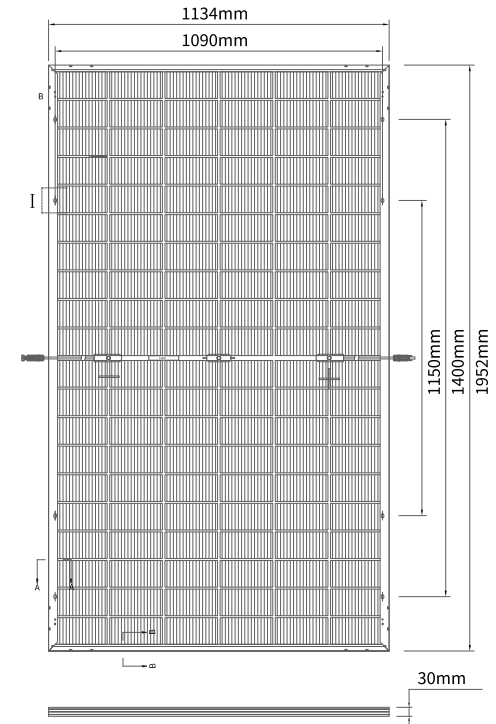
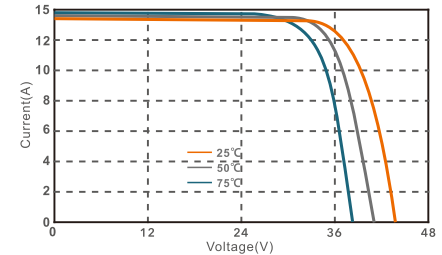
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
500	43.78	14.48	37.02	13.51	0%
525	43.78	15.20	37.02	14.18	5%
550	43.78	15.93	37.02	14.86	10%
575	43.78	16.65	37.02	15.53	15%
600	43.78	17.38	37.02	16.21	20%
625	43.78	18.10	37.02	16.88	25%
650	43.78	18.82	37.02	17.56	30%

## I-V CURVE

I-V characteristics at different irradiances (reference to 500 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-1952-120BDGNTHC-30-EN-V1.0