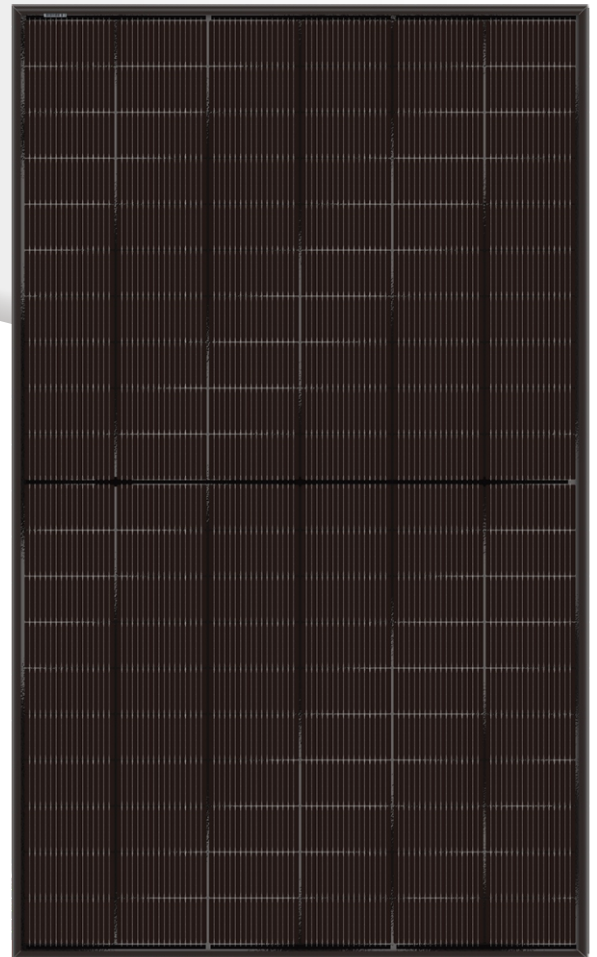
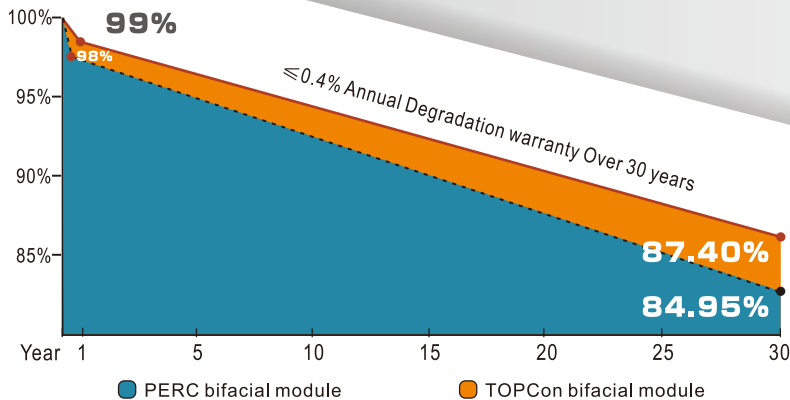


Black Jade-Flow

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-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) 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

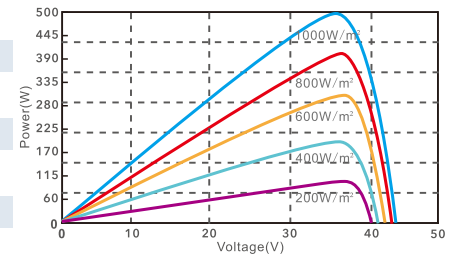
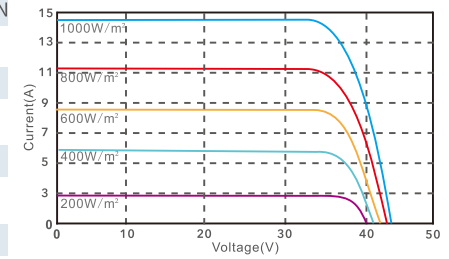
Cell Type	N type Mono-crystalline
No. of cells	120(6×10×2)
Dimensions	1952*1134*30mm
Weight	26.5kg
Front Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible
Cable Length (Including Connector)	4mm² Landscape: (+)1200/(-)1200mm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

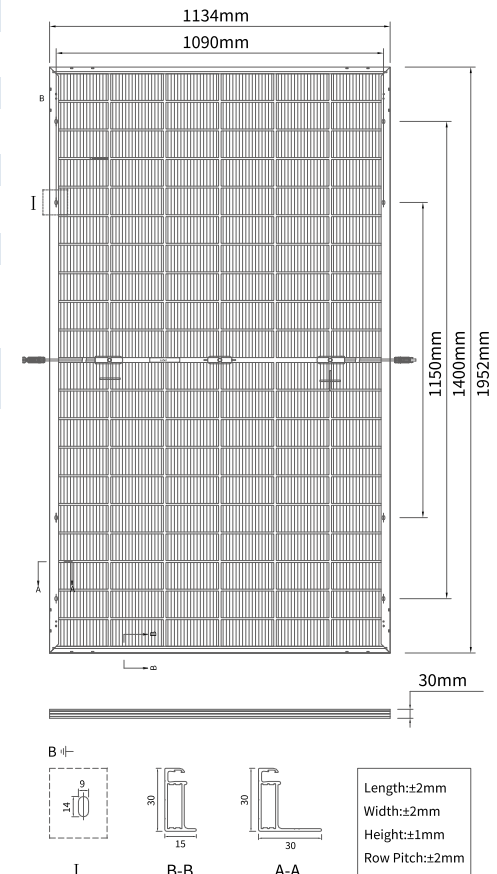
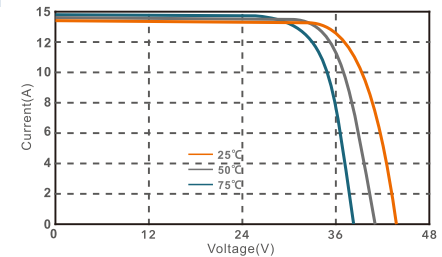
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
500	43.78	14.48	37.02	13.51	0%
525	43.78	15.20	37.02	14.18	5%
550	43.78	15.93	37.02	14.86	10%
575	43.78	16.65	37.02	15.53	15%
600	43.78	17.38	37.02	16.21	20%
625	43.78	18.10	37.02	16.88	25%
650	43.78	18.82	37.02	17.56	30%

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