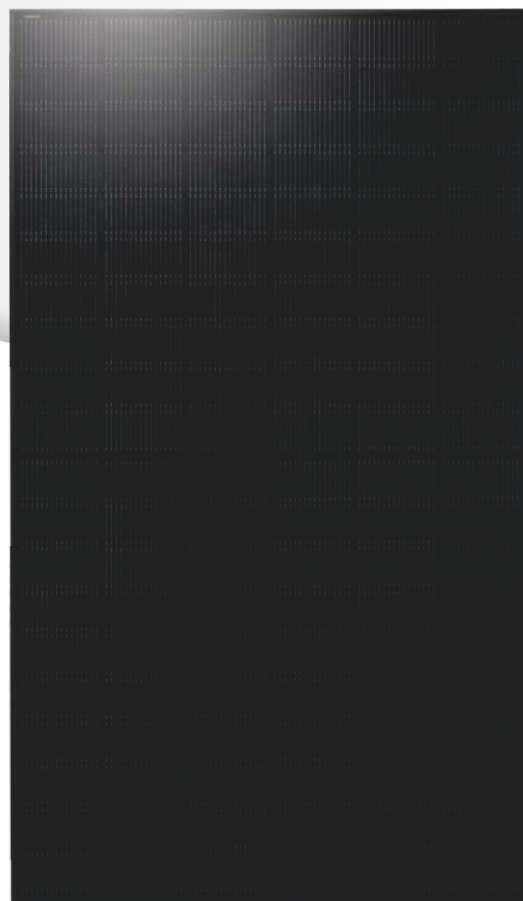
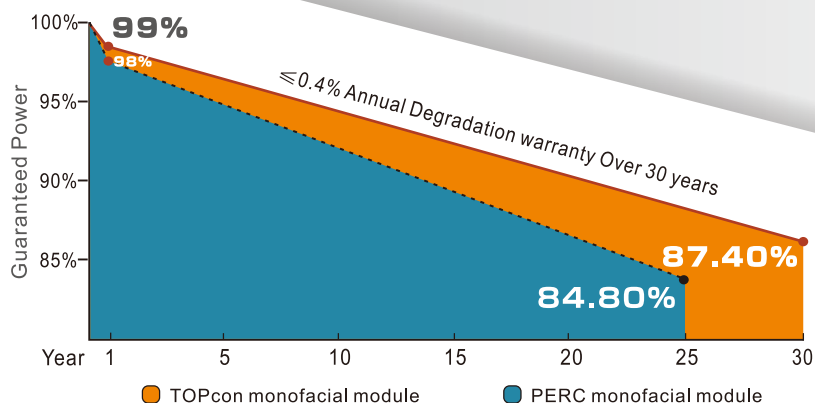


Black Jade Series

MONO-FACIAL N-TYPE MODULE

490~505 W



Cutting Free Technology
Minimized micro-crack



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 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

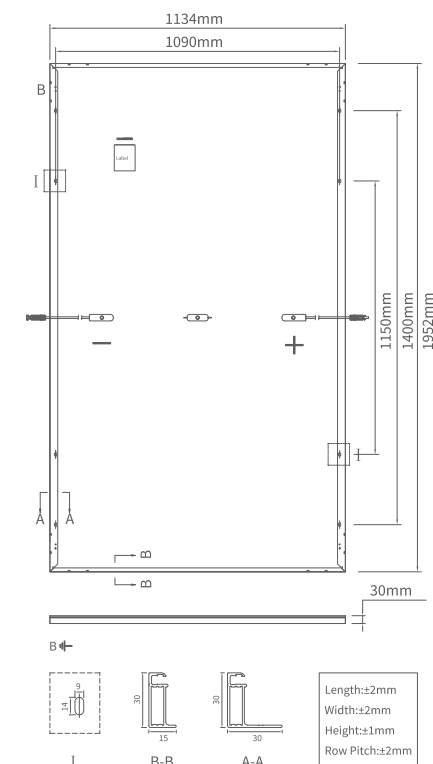
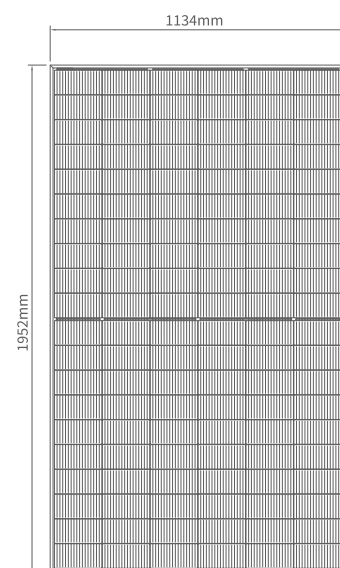
Module Type	UL-490M-120BHVN			UL-495M-120BHVN		UL-500M-120BHVN		UL-505M-120BHVN	
	STC*		NOCT*	STC*		NOCT*	STC*		NOCT*
Maximum Power (Pmax)	W	490	371	495	375	500	379	505	383
Maximum Power Voltage (Vmp)	V	36.68	33.75	36.85	33.90	37.02	34.06	37.18	34.21
Maximum Power Current (Imp)	A	13.36	11.00	13.43	11.06	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				25A					
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

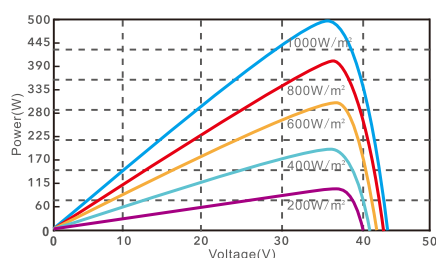
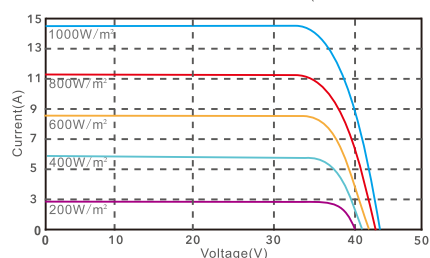
SPECIFICATIONS

Cell Type	N type Mono-crystalline		
No. of cells	120(6×10×2)		
Dimensions	1952*1134*30mm		
Weight	22.5kg		
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass		
Junction Box	IP68, 3diodes		
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		

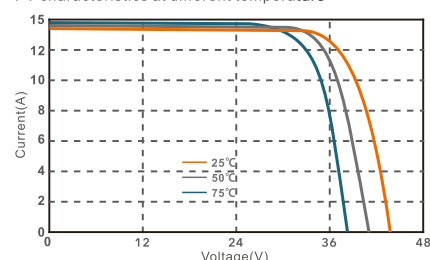


I-V CURVE[500W]

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-1952-120BHVNHHC-30-EN-V1.1