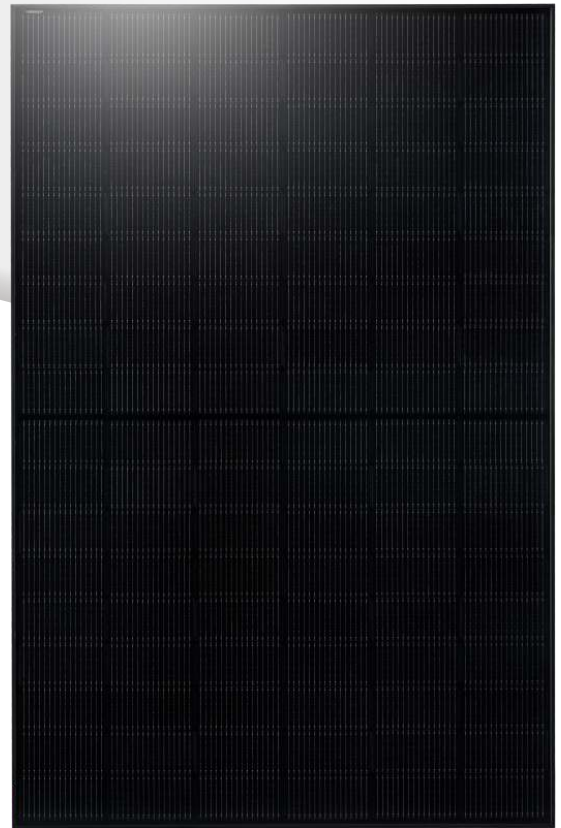
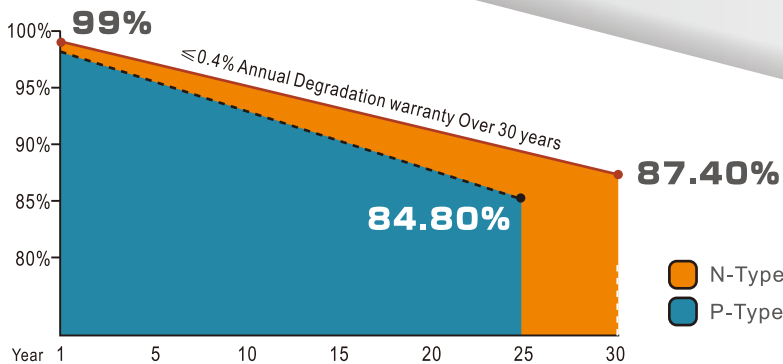


Black Jade Series

MONO-FACIAL N-TYPE MODULE

440~455 W



Cutting Free Technology
Minimized micro-crack



Anti-PID (potential induced degradation)
Passed anti-PID test under 85% damp heat 85% relative humidity for 96 hours



Higher Power Output
Lower shading and resistive loss



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 Ia CLASSE DI REAZIONE AL FUOCO:1

Add: No. 238 Yunlin Middle Road, Wangchun Industrial District, Ningbo, China

Tel: +86-574-28828939

Email: sales@ulsolar.com.cn

Fax: +86-574-28828997

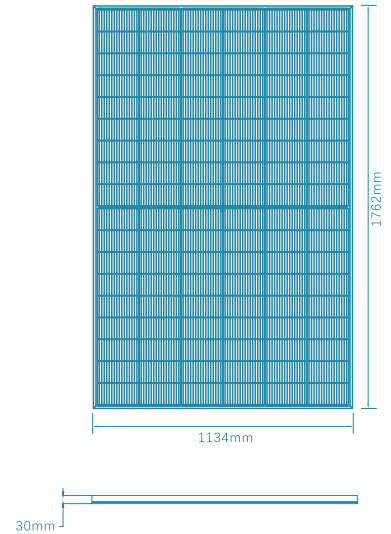
Web: www.ulicasolar.com



TOPCON(N TYPE) 440~455Watt

ELECTRICAL SPECIFICATIONS

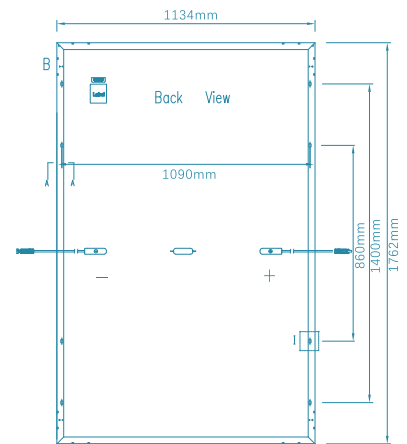
Module Type	UL-440M-108BHVN		UL-445M-108BHVN		UL-450M-108BHVN		UL-455M-108BHVN		
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	
Maximum Power (Pmax)	W	440	333	445	332	450	335	455	339
Maximum Power Voltage (Vmp)	V	32.81	30.20	33.02	30.40	33.22	30.60	33.42	30.70
Maximum Power Current (Imp)	A	13.41	11.05	13.48	11.10	13.55	11.16	13.61	11.21
Open-circuit Voltage (Voc)	V	39.38	35.80	39.58	36.00	39.78	36.20	39.98	36.40
Short-circuit Current (Isc)	A	14.22	11.47	13.93	11.24	14.00	11.29	14.06	11.34
Module Efficiency STC	%	22.02		22.27		22.52		22.77	
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	-0.30%/°C								
Temperature coefficients of Voc	-0.250%/°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
 *NOTC : Air temperature: 20°C, Irradiance: 800 W/m², Air mass: 1.5G, Wind speed: 1 m/s

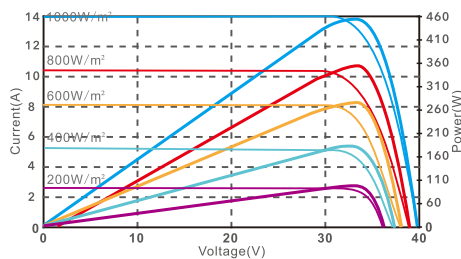
SPECIFICATIONS

Cell Type	182.2x94mm N type Mono-crystalline
No. of cells	108 (6×9×2)
Dimensions	1762*1134*30mm
Weight	22Kg
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 Portrait: (+)400 mm/(-) 200mm Landscape: (+) 1100mm/(-)1100 mm
Packaging Configuration	Two Box=One pallet 36pcs/Box, 72pcs/Pallet, 936pcs/40HQ Container

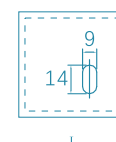
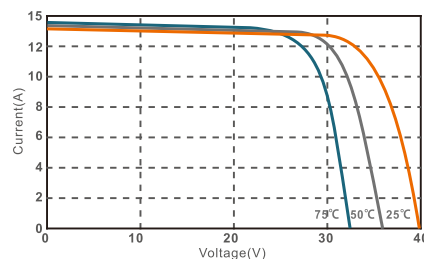


I-V CURVE[450W]

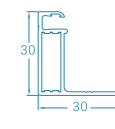
I-V characteristics at different irradiances



I-V characteristics at different temperature



Section A-A



Length: ± 2mm
 Width: ± 2mm
 Height: ± 1mm
 Row Pitch: ± 2mm

