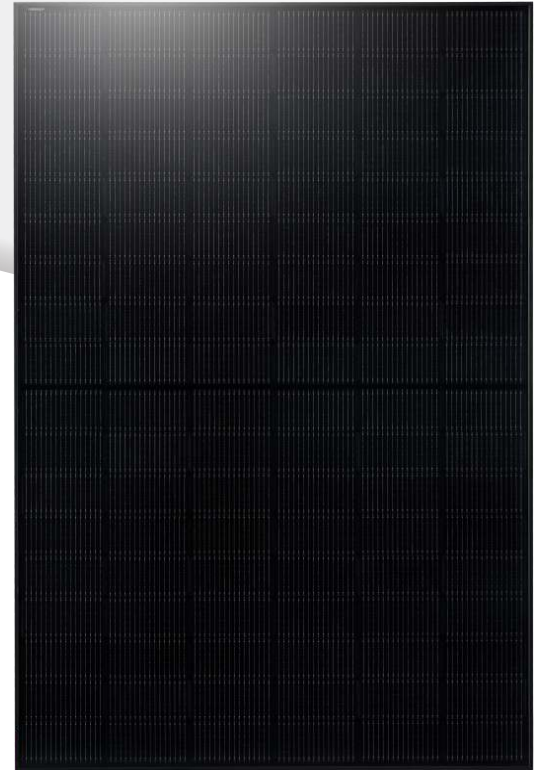
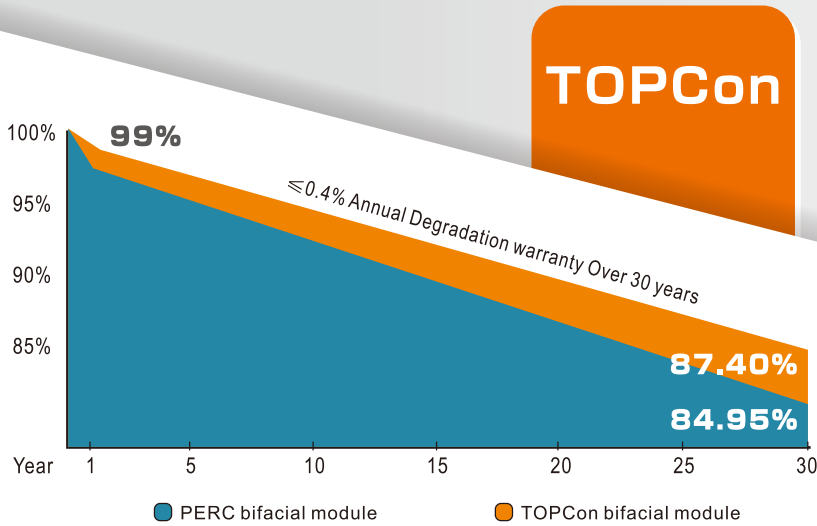


DOUBLE-GLASS BIFACIAL N-TYPE 430~445 Watt ALL BLACK



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% 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

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) 430~445Watt

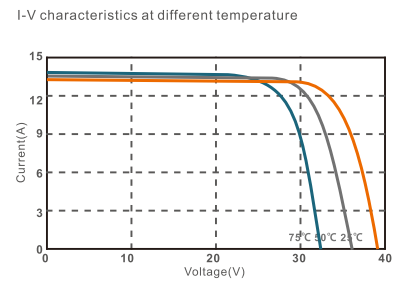
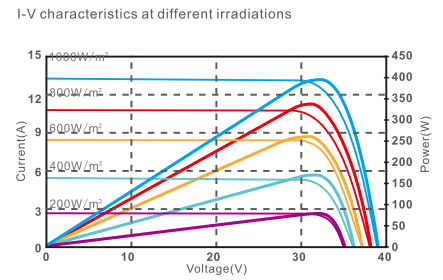


ELECTRICAL SPECIFICATIONS

Module Type	UL-430M-108ADGN		UL-435M-108ADGN		UL-440M-108ADGN		UL-445M-108ADGN		
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	
Maximum Power (Pmax)	W	430	326	435	330	440	333	445	443
Maximum Power Voltage (Vmp)	V	31.81	29.27	31.91	29.36	32.01	29.45	32.15	29.58
Maximum Power Current (Imp)	A	13.52	11.13	13.63	11.23	13.75	11.32	13.84	11.40
Open-circuit Voltage (Voc)	V	39.24	35.71	39.39	35.84	39.54	35.98	39.69	36.12
Short-circuit Current (Isc)	A	13.89	11.20	13.95	11.25	14.01	11.30	14.10	11.37
Module Efficiency STC	%	22.02		22.28		22.53		22.79	
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								

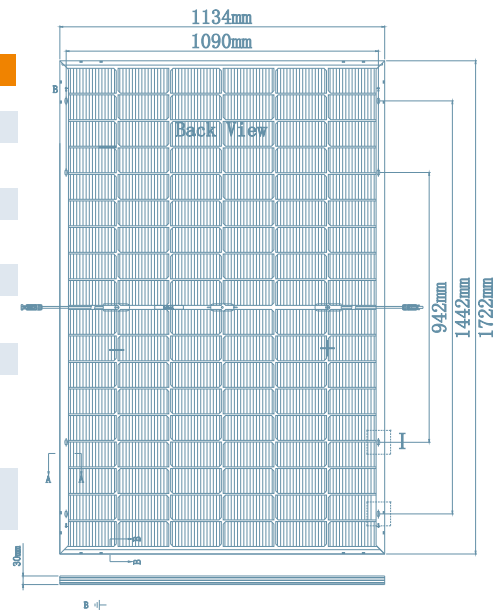
*STC : Cell temperature: 25°C, Irradiance: 1000 W/m², Air mass: 1.5G
 *NOCT : Air temperature: 20°C, Irradiance: 800 W/m², Air mass: 1.5G, Wind speed: 1 m/s

I-V CURVE[440W]



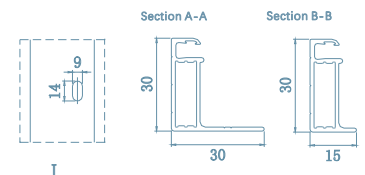
SPECIFICATIONS

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, 3 diodes	
Connector	MC4 Compatible 4mm²	
Cable Length (including Connector)	Portrait:(+)400/(-)200mm Landscape:(+)1100/(-)1100mm	
Packaging Configuration	Two Box=One Pallet 36pcs/Box, 72pcs/Pallet, 936pcs/40HQ Container	



Electrical characteristics with different rear side power gain (reference to 440W 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	14.43	5%
484	39.54	15.41	32.01	15.12	10%
506	39.54	16.11	32.01	15.81	15%
528	39.54	16.81	32.01	16.49	20%
550	39.54	17.51	32.01	17.18	25%
572	39.54	18.21	32.01	17.87	30%



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

