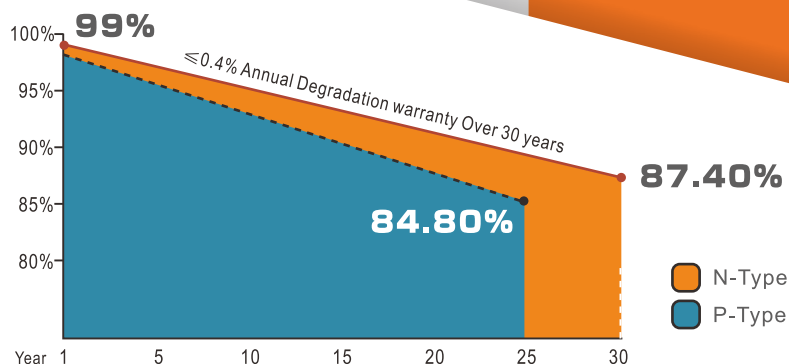


MONO-FACIAL MODULE N-TYPE 460~475 Watt



TOPCON



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 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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Tel: +86-574-28828939

Email: sales@ulsolar.com.cn

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Web: www.ulicasolar.com



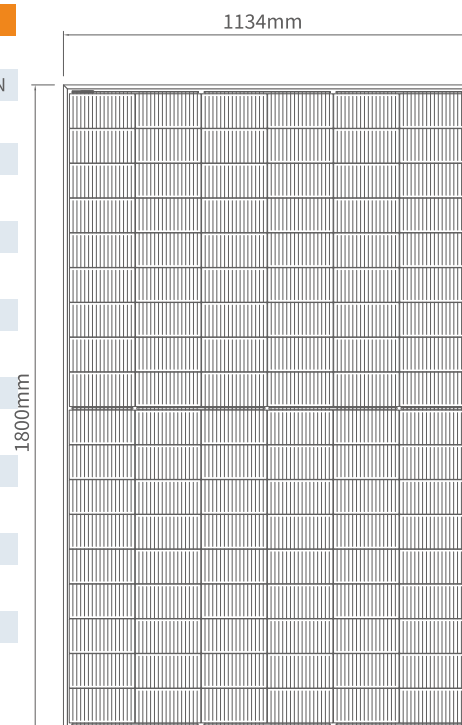
TOPCon(N TYPE) 460~475Watt

ELECTRICAL SPECIFICATIONS

Module Type	UL-460M-108CHVN			UL-465M-108CHVN		UL-470M-108CHVN		UL-475M-108CHVN	
		STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*
Maximum Power (Pmax)	W	460	349	465	352	470	356	475	360
Maximum Power Voltage (Vmp)	V	33.22	30.56	33.42	30.75	33.62	30.93	33.82	31.11
Maximum Power Current (Imp)	A	13.85	11.41	13.91	11.46	13.98	11.52	14.04	11.57
Open-circuit Voltage (Voc)	V	39.78	36.20	39.98	36.38	40.18	36.56	40.38	36.75
Short-circuit Current (Isc)	A	14.58	11.76	14.64	11.81	14.83	11.87	14.89	12.01
Module Efficiency STC	%	22.54		22.78		23.03		23.27	
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					-0.250%/°C				
Temperature coefficients of Isc					0.046%/°C				
Nominal operating cell temperature (NOCT)					43±2°C				

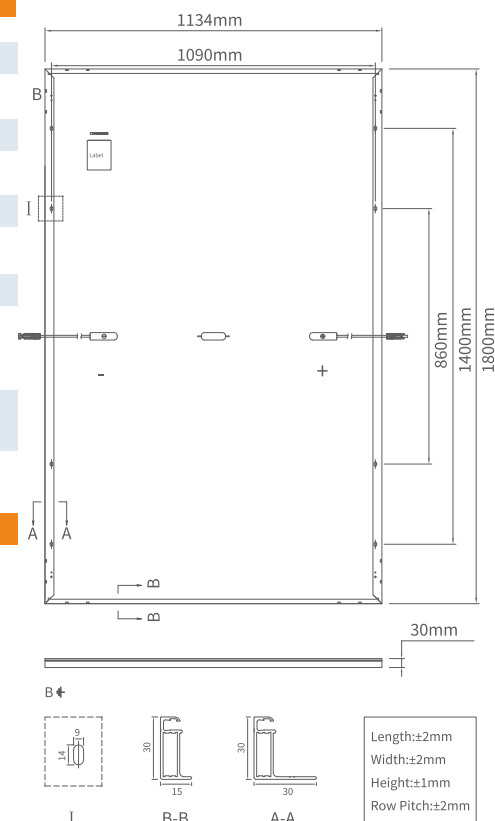
*STC : Cell temperature: 25°C, Irradiance: 1000 W/m², Air mass: 1.5G

*NOTC : Air temperature: 20°C, Irradiance: 800 W/m², Air mass: 1.5G, Wind speed: 1 m/s



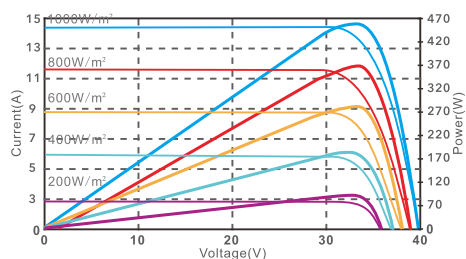
SPECIFICATIONS

Cell Type	N type Mono-crystalline
No. of cells	108 (6×9×2)
Dimensions	1800*1134*30mm
Weight	21.5Kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Junction Box	IP68, 3 diodes
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, 864pcs/40HQ Container



I-V CURVE[465W]

I-V characteristics at different irradiances



I-V characteristics at different temperature

