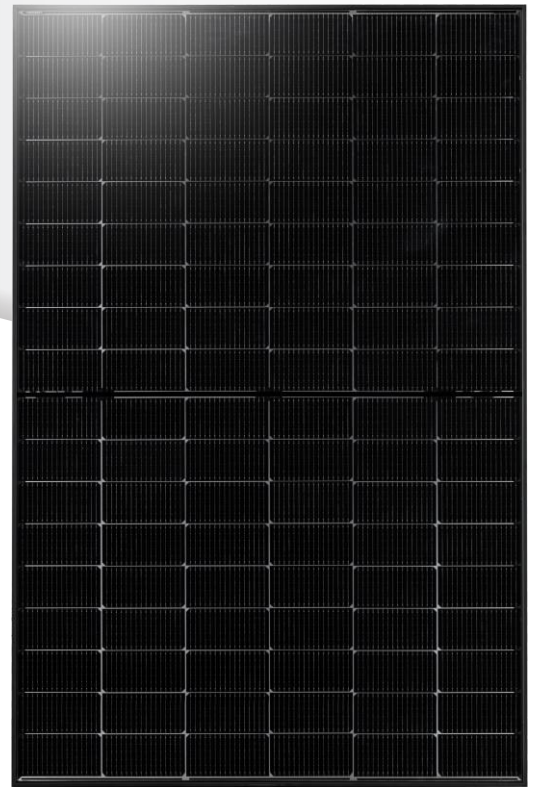
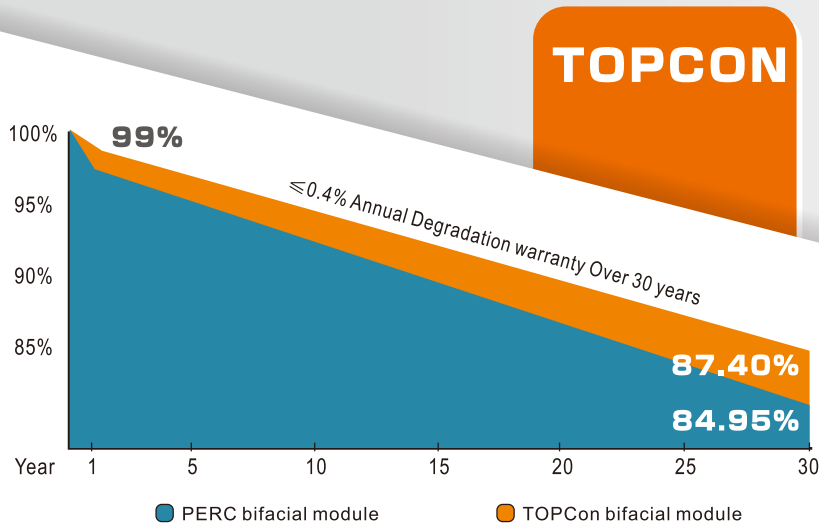


DOUBLE-GLASS BI-FACIAL MODULE N-TYPE 430~440 Watt MBB 182mm Cells



15-year product warranty
30-year linear power output



Global Tier 1 brand as announced by Bloomberg NEF



Lower LCOE
Lower shading and resistive loss
Lower temperature coefficient



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



Outstanding mechanical load resistance
3800 Pa wind load, 5400 Pa snow load



Great Durability against extreme conditions
Passed salt mist corrosion test, ammonia corrosion test
dust & sand test, fire test, all certified by TUV



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



TOPCON (N TYPE) 430~440Watt



ELECTRICAL SPECIFICATIONS

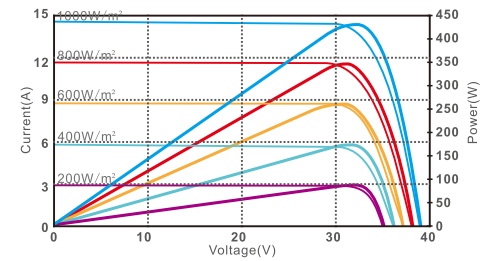
Module Type		UL-430M-108DGN		UL-435M-108DGN		UL-440M-108DGN	
		STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	W	430	320	435	324	440	328
Maximum Power Voltage (Vmp)	V	31.8	29.3	31.9	29.3	32.0	29.4
Maximum Power Current (Imp)	A	13.52	10.95	13.64	11.05	13.75	11.14
Open-circuit Voltage (Voc)	V	38.0	34.6	38.2	34.8	38.4	34.9
Short-circuit Current (Isc)	A	14.24	11.49	14.32	11.56	14.45	11.66
Module Efficiency STC	%	22.02		22.28		22.53	
Operating Temperature				-40℃~85℃			
Maximum system voltage				DC1500V(IEC)			
Maximum series fuse rating				25A			
Power tolerance				0~+5 Watt			
Temperature coefficients of Pmax				-0.30%/℃			
Temperature coefficients of Voc				-0.250%/℃			
Temperature coefficients of Isc				0.046%/℃			
Nominal operating cell temperature (NOCT)				43±2℃			

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

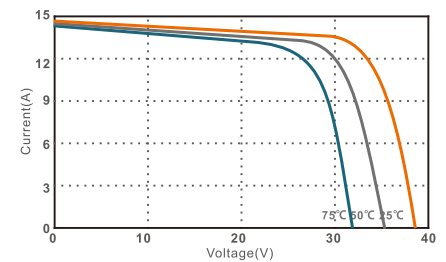
*NOTC : Air temperature: 20°C, Irradiance: 800 W/m², Air mass: 1.5G, Wind speed: 1 m/s

I-V CURVE

I-V characteristics at different irradiances

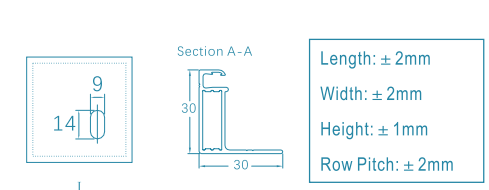
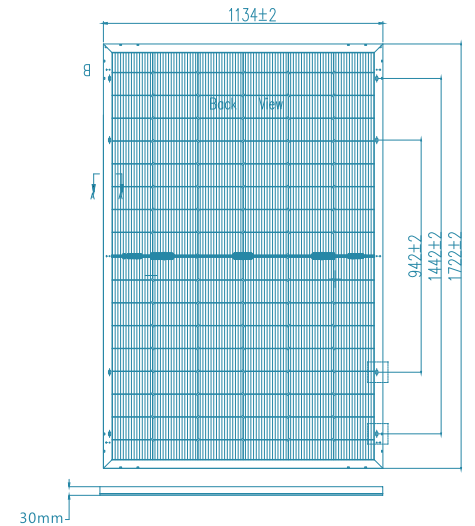


I-V characteristics at different temperature



SPECIFICATIONS

Cell Type	N type Mono-crystalline	
No. of cells	108 (6×9×2)	
Dimensions	1722*1134*30mm	
Weight	24.9Kg	
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 Portrait: (+)400 mm/(-) 200mm Landscape: (+) 1100mm/(-)1100 mm	
Packaging Configuration	Two Box=One pallet 36pcs/Box, 72pcs/Pallet, 936pcs/40HQ Container	



Electrical characteristics with different rear side power gain(reference to 435W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
435	38.2	14.32	31.9	13.64	0
457	38.2	15.04	31.9	14.32	5%
479	38.2	15.75	31.9	15.00	10%
500	38.2	16.47	31.9	15.68	15%
522	38.2	17.18	31.9	16.36	20%
544	38.2	17.90	31.9	17.05	25%
566	38.2	18.62	31.9	17.73	30%

