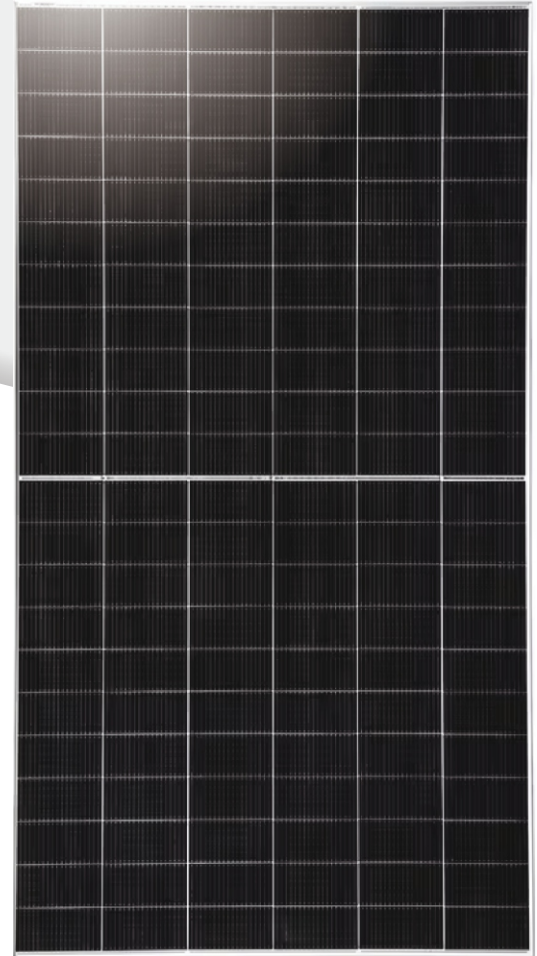
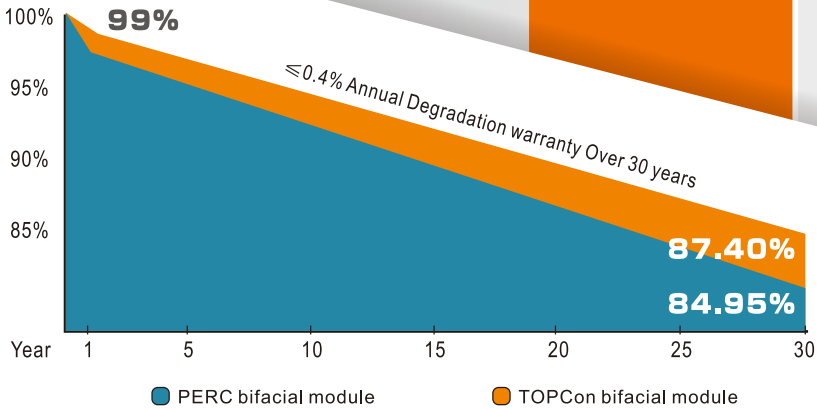


DOUBLE-GLASS BIFACIAL N-TYPE 690~700 Watt

TOPCON



15
30
15-year product warranty
30-year linear power output

Tier 1
Global Tier 1 brand as announced by Bloomberg NEF

Higher Power Output
Lower shading and resistive loss

Bifacial Mono Module
Capable of generating power at back side, at least 80% efficiency of the front side

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

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



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



TOPCON(N TYPE) 690~700Watt



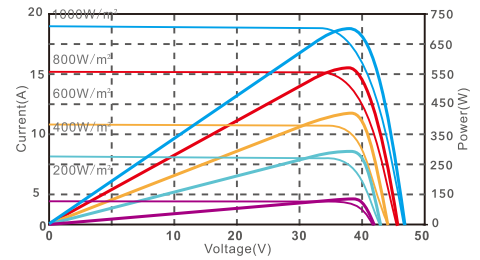
ELECTRICAL SPECIFICATIONS

Module Type	UL-690M-132DGN	UL-695M-132DGN	UL-700M-132DGN
	STC*	STC*	STC*
Maximum Power (Pmax)	W 690	695	700
Maximum Power Voltage (Vmp)	V 38.80	38.90	39.01
Maximum Power Current (Imp)	A 17.78	17.87	17.94
Open-circuit Voltage (Voc)	V 46.32	46.42	46.52
Short-circuit Current (Isc)	A 18.84	18.90	18.96
Module Efficiency STC	% 22.21	22.37	22.53
Operating Temperature	-40°C~85°C		
Maximum system voltage	DC1500V(IEC)		
Maximum series fuse rating	35A		
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		

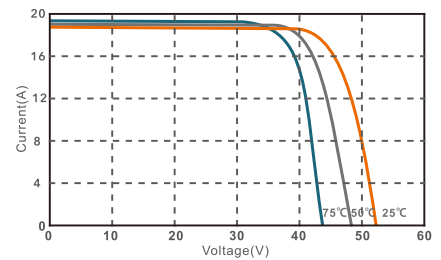
*STC : Cell temperature: 25°C, Irradiance: 1000 W/m², Air mass: 1.5G

I-V CURVE[700W]

I-V characteristics at different irradiances

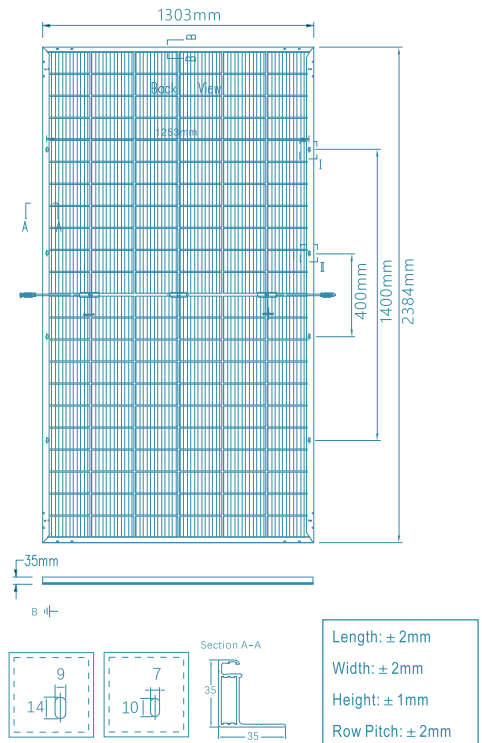


I-V characteristics at different temperature



SPECIFICATIONS

Cell Type	210×105mm N type Mono-crystalline
No. of cells	132 (6×11×2)
Dimensions	2384*1303*35mm
Weight	38.7Kg
Glass	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: (+) 1400mm/(-)1400 mm
Packaging Configuration	Two Box=One pallet 31pcs/Box, 62pcs/Pallet, 558pcs/40HQ Container



Electrical characteristics with different rear side power gain (reference to 700 W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
700	46.52	18.96	39.90	17.94	0
735	46.52	19.91	39.90	18.84	5%
770	46.52	20.86	39.90	19.74	10%
805	46.52	21.80	39.90	20.64	15%
840	46.52	22.75	39.90	21.53	20%
875	46.52	23.70	39.90	22.43	25%
910	46.52	24.65	39.90	23.33	30%

