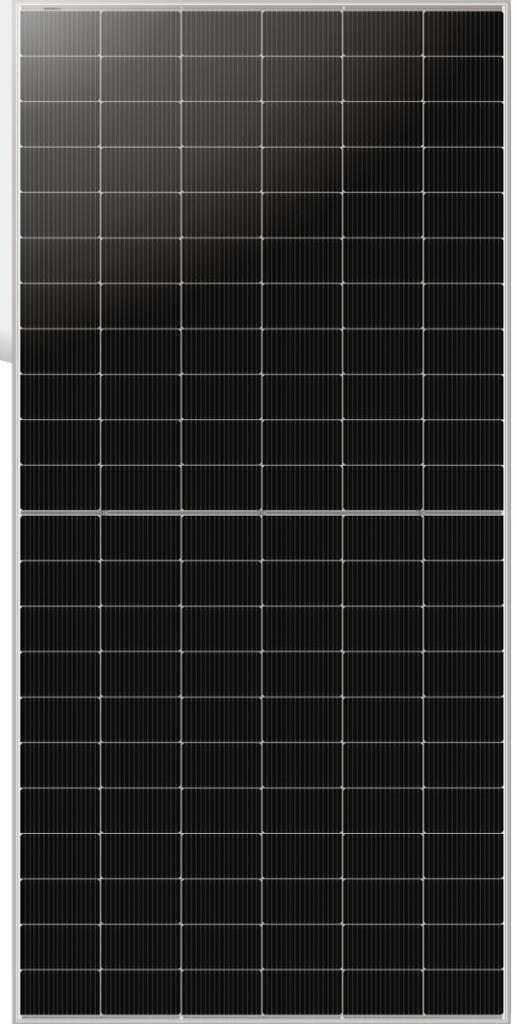
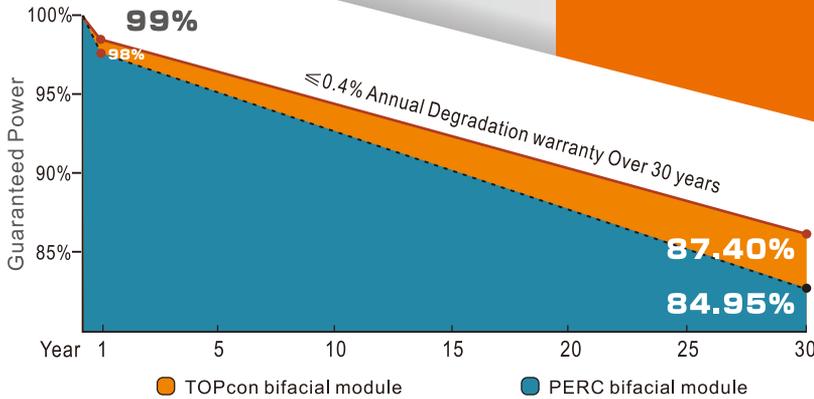


# DOUBLE-GLASS BIFACIAL N-TYPE 610~625 Watt

**TOPCon**



### 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°C 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 TUV



### Lower LCOE

Lower shading and resistive loss  
Lower temperature coefficient



### Outstanding mechanical load resistance

2400 Pa wind load, 5400 Pa snow load



**25** 25-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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# TOPCon(N TYPE)610~625Watt



## ELECTRICAL SPECIFICATIONS

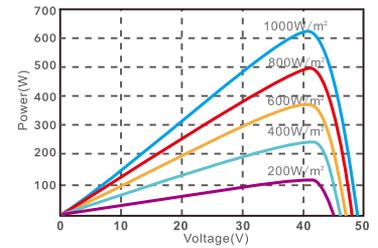
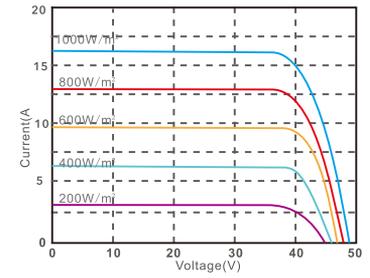
Module Type	UL-610M-132DDGN		UL-615M-132DDGN		UL-620M-132DDGN		UL-625M-132DDGN	
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*
Maximum Power (Pmax)	W 610	462	615	466	620	470	625	474
Maximum Power Voltage (Vmp)	V 40.54	37.29	40.72	37.46	40.90	37.63	40.98	37.70
Maximum Power Current (Imp)	A 15.05	12.40	15.10	12.44	15.16	12.49	15.25	12.56
Open-circuit Voltage (Voc)	V 48.68	44.30	48.88	44.48	49.08	44.66	49.12	44.70
Short-circuit Current (Isc)	A 15.96	12.87	16.02	12.92	16.08	12.97	16.10	12.99
Module Efficiency STC	% 22.58		22.77		22.95		23.14	
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/m<sup>2</sup>, Air mass: 1.5G

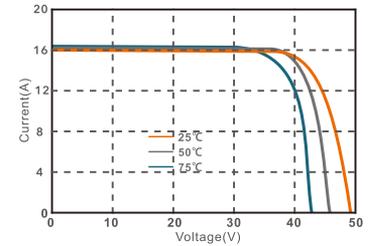
\*NOCT : Air temperature: 20°C, Irradiance: 800 W/m<sup>2</sup>, Air mass: 1.5G, Wind speed: 1 m/s

## I-V CURVE

I-V characteristics at different irradiances (reference to 615 W)



I-V characteristics at different temperature

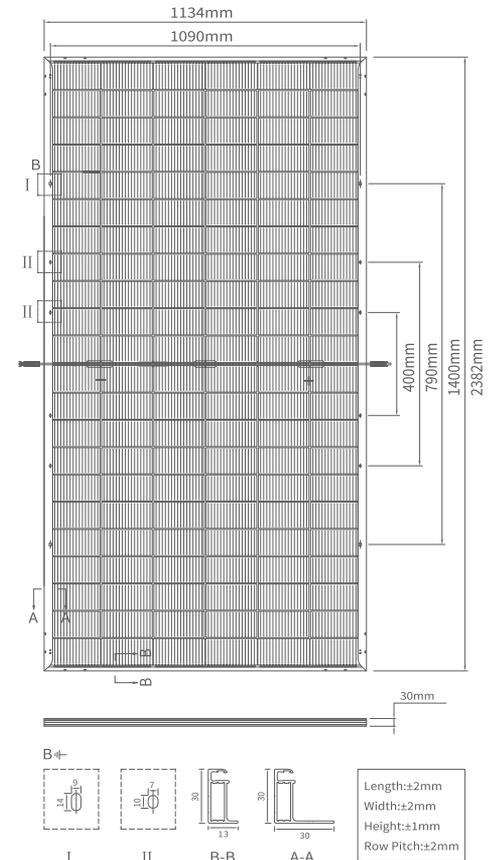


## SPECIFICATIONS

Cell Type	N type Mono-crystalline	
No. of cells	132(6×11×2)	
Dimensions	2382*1134*30mm	
Weight	31.7kg	
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)	4mm <sup>2</sup> Landscape:(+)1400mm/(-)1400mm or Customized Length	
Packaging Configuration	Two Box=One Pallet 36pcs/Box, 72pcs/Pallet, 720pcs/40HQ Container	

## Electrical characteristics with different rear side power gain (reference to 615 W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
615	48.88	16.02	40.72	15.10	0%
646	48.88	16.82	40.72	15.86	5%
677	48.88	17.62	40.72	16.61	10%
707	48.88	18.42	40.72	17.37	15%
738	48.88	19.22	40.72	18.12	20%
769	48.88	20.03	40.72	18.88	25%
800	48.88	20.83	40.72	19.63	30%



Specifications included in this datasheet are subject to change without notice.

Ulica Solar reserves the right of final interpretation.

Version No.: UL-2382-132DDGNYBC-30-ENS-V1.1