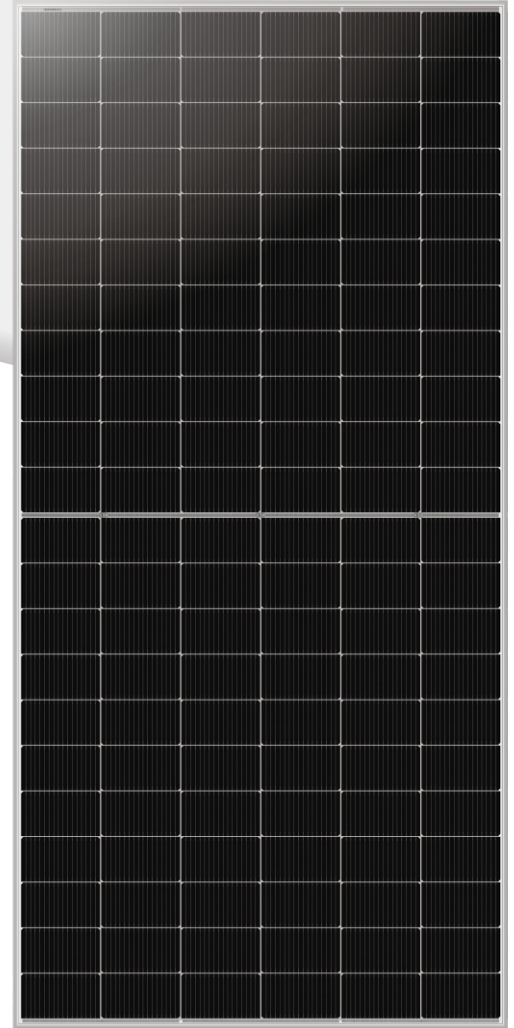
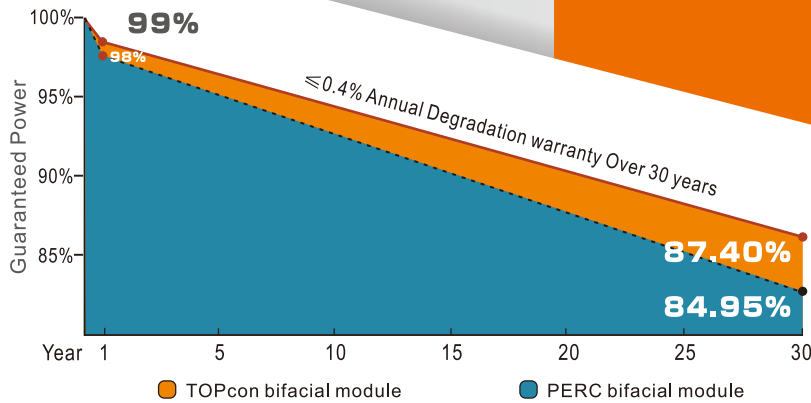


DOUBLE-GLASS BIFACIAL N-TYPE 610~625 Watt



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 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



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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*
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/m², Air mass: 1.5G

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

SPECIFICATIONS

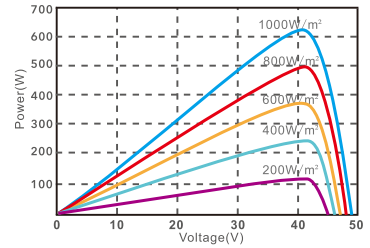
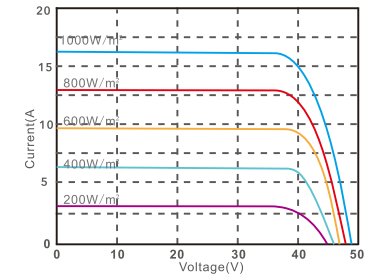
Cell Type	N type Mono-crystalline	
No. of cells	132(6×11×2)	
Dimensions	2382*1134*30mm	
Weight	31.7kg	
Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Junction Box	IP68, 3 diodes	
Connector	MC4 Compatible	
Cable Length (including Connector)	4mm² Portrait: (+)400/(-)200mm 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)

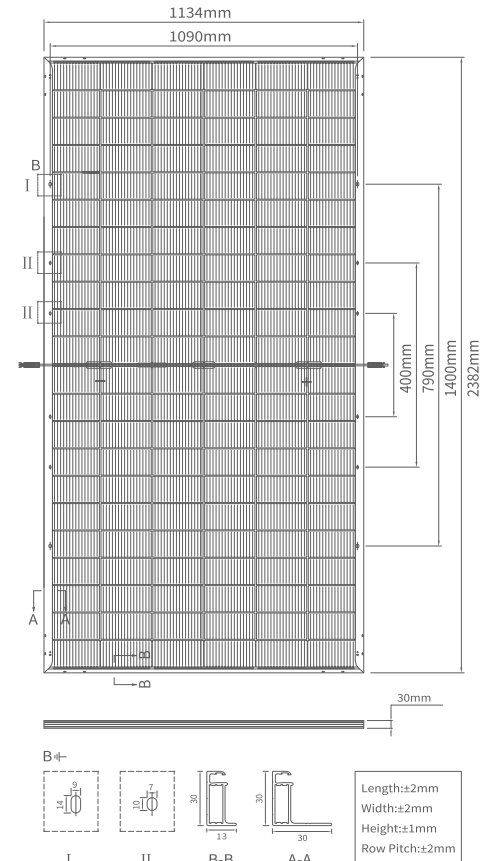
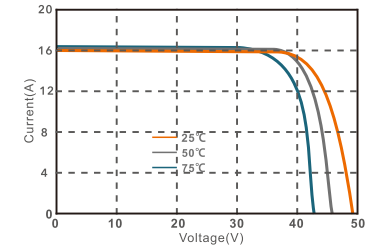
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
615	48.88	16.02	40.72	15.10	0%
646	48.88	16.82	40.72	15.86	5%
677	48.88	17.62	40.72	16.61	10%
707	48.88	18.42	40.72	17.37	15%
738	48.88	19.22	40.72	18.12	20%
769	48.88	20.03	40.72	18.88	25%
800	48.88	20.83	40.72	19.63	30%

I-V CURVE

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



I-V characteristics at different temperature



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

Ulica Solar reserves the right of final interpretation.

Version No.: UL-2382-132DDGNYBD-30-EN-V1.0