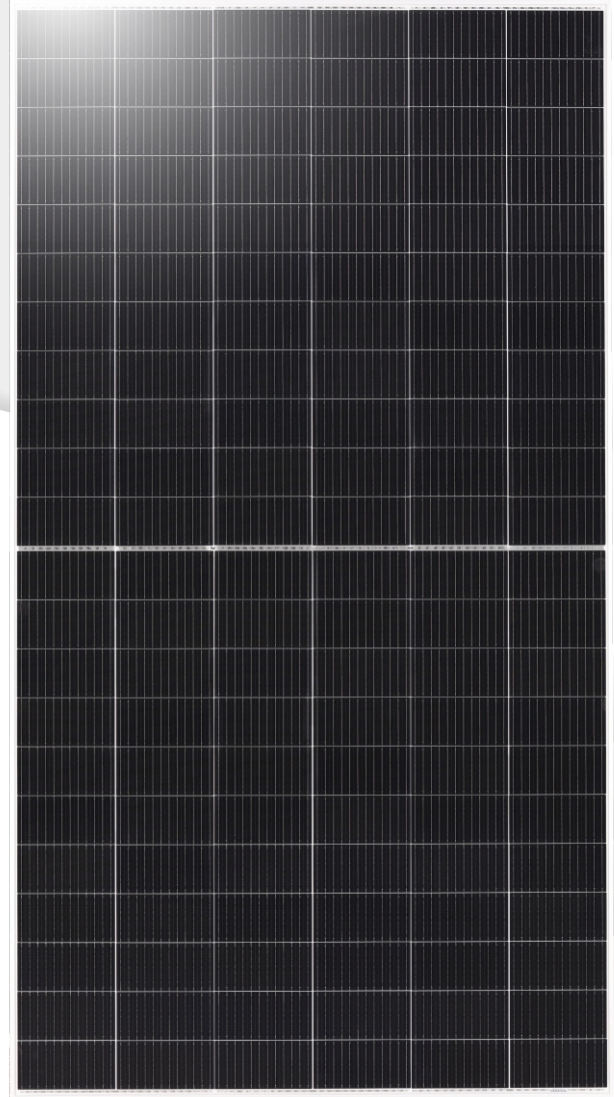
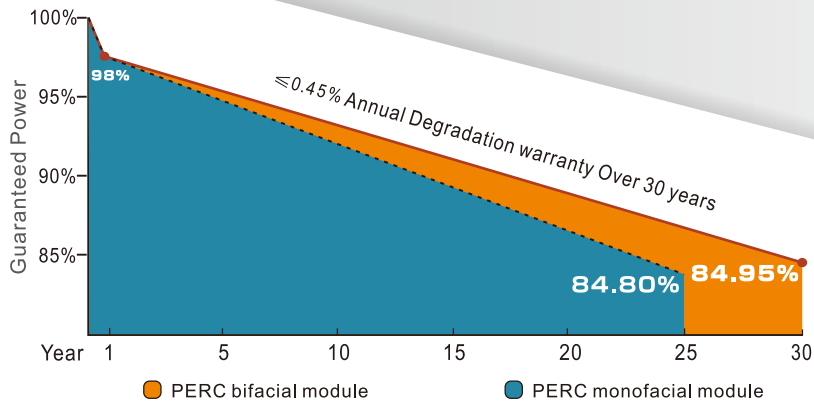


DOUBLE-GLASS BIFACIAL MODULE UL-660 | 665 | 670 M-132DG



Bifacial Mono Module

Capable of generating power at back side, at least 70% efficiency of the front side



Anti-PID (potential induced degradation)

Passed anti-PID test under 85°C damp heat 85% relative humidity for 96 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



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



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mono 660~670Watt

ELECTRICAL SPECIFICATIONS

Module Type		UL-660M-132DG		UL-665M-132DG		UL-670M-132DG	
		STC* NOCT*		STC* NOCT*		STC* NOCT*	
Maximum Power (Pmax)	W	660	494	665	498	670	502
Maximum Power Voltage (Vmp)	V	38.22	35.16	38.30	35.24	38.41	35.34
Maximum Power Current (Imp)	A	17.27	14.06	17.36	14.13	17.44	14.20
Open-circuit Voltage (Voc)	V	46.01	41.87	46.12	41.97	46.21	42.05
Short-circuit Current (Isc)	A	18.44	14.88	18.53	14.95	18.62	15.03
Module Efficiency STC	%	21.25		21.41		21.57	
Operating Temperature				-40℃~85℃			
Maximum system voltage				DC1500V(IEC)			
Maximum series fuse rating				35A			
Power tolerance				0~+5Watt			
Temperature coefficients of Pmax				-0.34%/℃			
Temperature coefficients of Voc				-0.265%/℃			
Temperature coefficients of Isc				0.049%/℃			
Nominal operating cell temperature (NOCT)				43±2℃			

*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

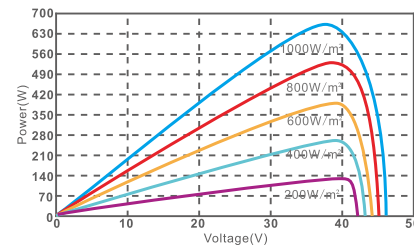
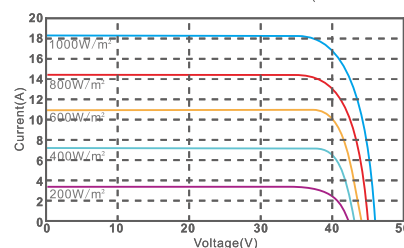
Cell Type	Mono-crystalline		
No. of cells	132(6×11×2)		
Dimensions	2384*1303*33mm		
Weight	37.4kg		
Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass		
Junction Box	IP68, 3 diodes		
Connector	MC4 Compatible		
Cable Length (including Connector)	4mm ² Landscape: (+)1400mm/(-)1400mm or Customized Length		
Packaging Configuration	33pcs/Pallet, 594pcs/40HQ Container		

Electrical characteristics with different rear side power gain(reference to 665 W front)

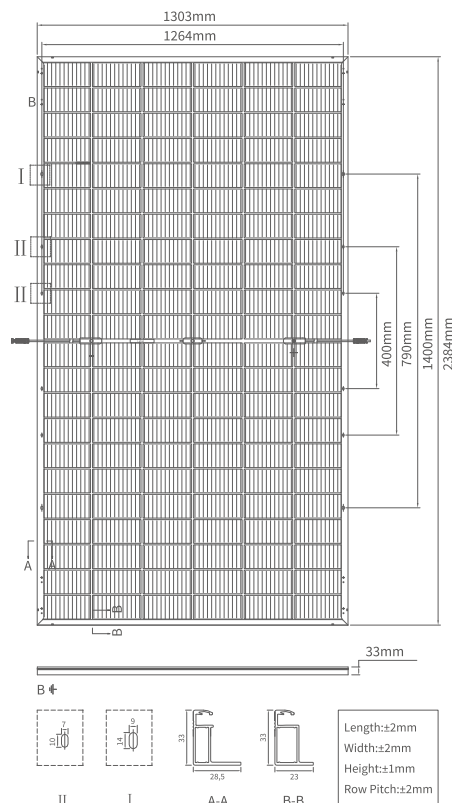
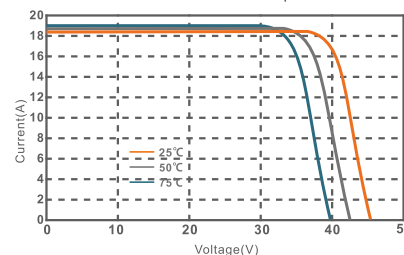
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
665	46.12	18.53	38.30	17.36	0%
698	46.12	19.46	38.30	18.23	5%
732	46.12	20.38	38.30	19.10	10%
765	46.12	21.31	38.30	19.96	15%
798	46.12	22.24	38.30	20.83	20%
831	46.12	23.16	38.30	21.70	25%
865	46.12	24.09	38.30	22.57	30%

I-V CURVE

I-V characteristics at different irradiances (reference to 665 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-2384-132DGBBC-33-EN-V1.1