

# Mate Pro<sup>Veil</sup> series

Double Glass BiFacial N-Type TOPCon Solar Module

# 600~625Watt

Model: UL-\*\*\*M-132DDGN

Maximum Efficiency: **23.14%**



### Bifacial Mono Module

Capable of generating power at back side, 80±5% efficiency of the front side



### Longer Term Reliability

Passed the IEC63209-1:2021 standard test (With testing standards 2 to 3 times stricter than regular IEC requirements)



### Outstanding Mechanical load Resistance

2400 Pa wind load, 5400 Pa snow load



### Anti-PID(potential induced degradation)

Passed anti-PID test under 85°C damp heat 85% relative humidity for 192 hours



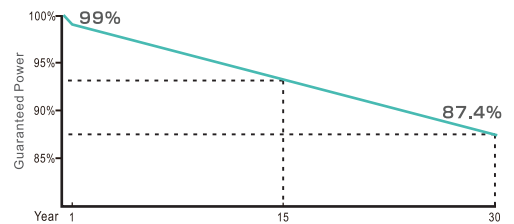
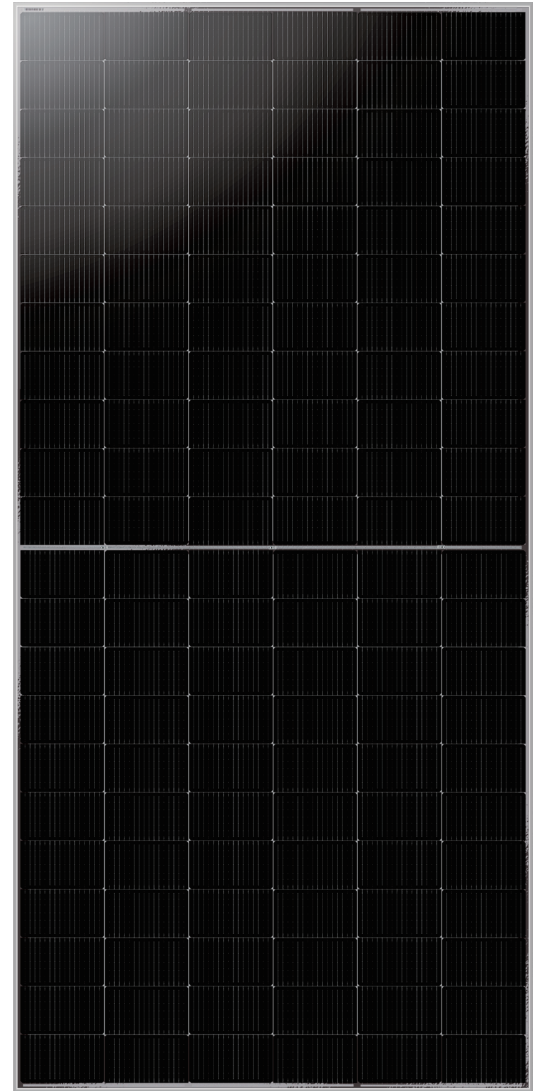
### Lower LCOE

Lower shading and resistive loss Lower temperature coefficient



### Widely Applied To Various Scenarios

Flexibly applied to roofs, ground surfaces, water surfaces, mountainous areas, and other diverse environments



**15** Year Product Warranty    **1%** Power Degradation In The First Year

**30** Year Linear Power Warranty    **0.4%** Linear Power Degradation



CEC Listed



IEC 61215, IEC 61730

ISO 9001: 2015(Quality management systems)

ISO 14001: 2015 (Environmental management systems)

ISO45001: 2018 (Occupational health and safety)

UNI 9177 Ia CLASSE DI REAZIONE AL FUOCO:1



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## ELECTRICAL SPECIFICATIONS

Module Type	UL-600M-132DDGN		UL-605M-132DDGN		UL-610M-132DDGN		UL-615M-132DDGN		UL-620M-132DDGN		UL-625M-132DDGN		
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	
Maximum Power(Pmax)	W	600	455	605	458	610	462	615	466	620	470	625	474
Maximum Power Voltage(Vmp)	V	40.17	36.96	40.35	37.12	40.54	37.29	40.72	37.46	40.90	37.63	40.98	37.70
Maximum Power Current(Imp)	A	14.94	12.30	14.99	12.35	15.05	12.40	15.10	12.44	15.16	12.49	15.25	12.56
Open-circuit Current(Voc)	V	48.28	43.93	48.48	44.12	48.68	44.30	48.88	44.48	49.08	44.66	49.12	44.70
Short-circuit Current(Isc)	A	15.84	12.78	15.90	12.83	15.96	12.87	16.02	12.92	16.08	12.97	16.10	12.99
Module Efficiency STC	%	22.21		22.40		22.58		22.77		22.95		23.14	

\*STC: Cell temperature: 25°C, Irradiance: 1000W/m², Air mass: 1.5G, Power measurement tolerance: ±3%  
 \*NOCT: Air temperature: 20°C, Irradiance: 1000W/m², Air mass: 1.5G, Wind speed: 1m/s

## OPERATING PARAMETERS

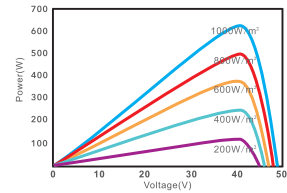
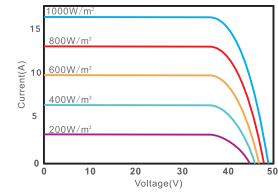
Operating Temperature	-40°C~85°C
Maximum system voltage	DC1500V(IEC)
Maximum series fuse rating	30A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

## TEMPERATURE RATINGS

Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.046%/°C

## I-V CURVE

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

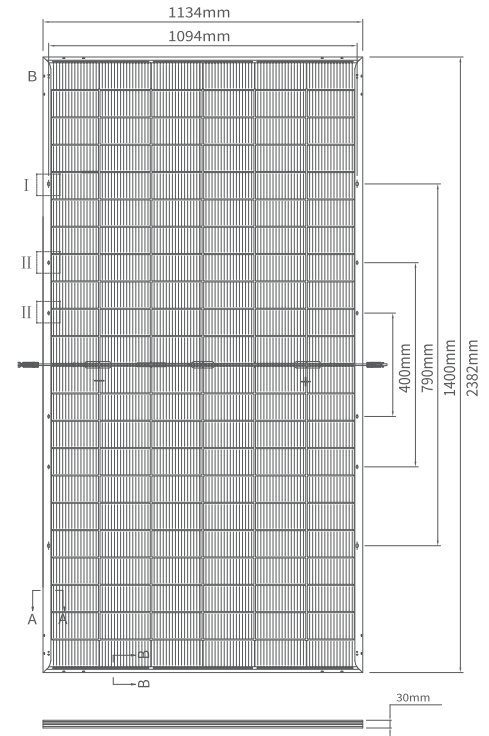


## REAR SIDE POWER GAIN(REFERENCE TO 615W FRONT SIDE)

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

## SPECIFICATIONS

Cell Type	N-type TOPCon Mono Half Cell	
No. of cells	132(6×11×2)	
Dimensions	2382*1134*30mm	
Weight	31.7kg	
Front Glass	2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Back Glass	2.0mm, High Transmission, Low Iron, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68, 3 diodes	
Connector	MC4 Compatible: PV-UL608 or others _____	Original: MC4-EVO2
Cable Length (Including Connector)	4mm² Short Cable: (+)400/(-)200mm or Long Cable: (+)1400/(-)1400mm or Customized Length _____	



## PACKAGING INFORMATION



36 Pcs/Pallet



72 Pcs/Stack



Length: 2390mm



Width: 1130mm



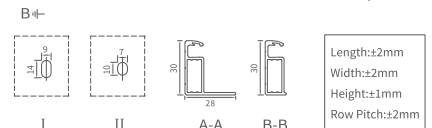
Height: 2540mm



Weight: 2365kg/Stack



10 Stack/40HQ  
720 Pcs/40HQ



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

Ulica Solar reserves the right of final interpretation.

Version number: UL-2382-132DDGNYB-30-EN-V3.0