

Mate Pro^{Veil} 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



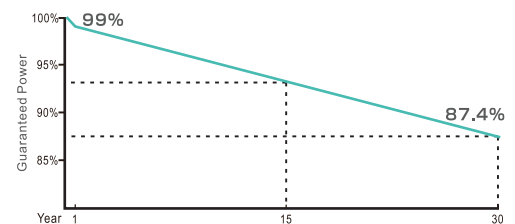
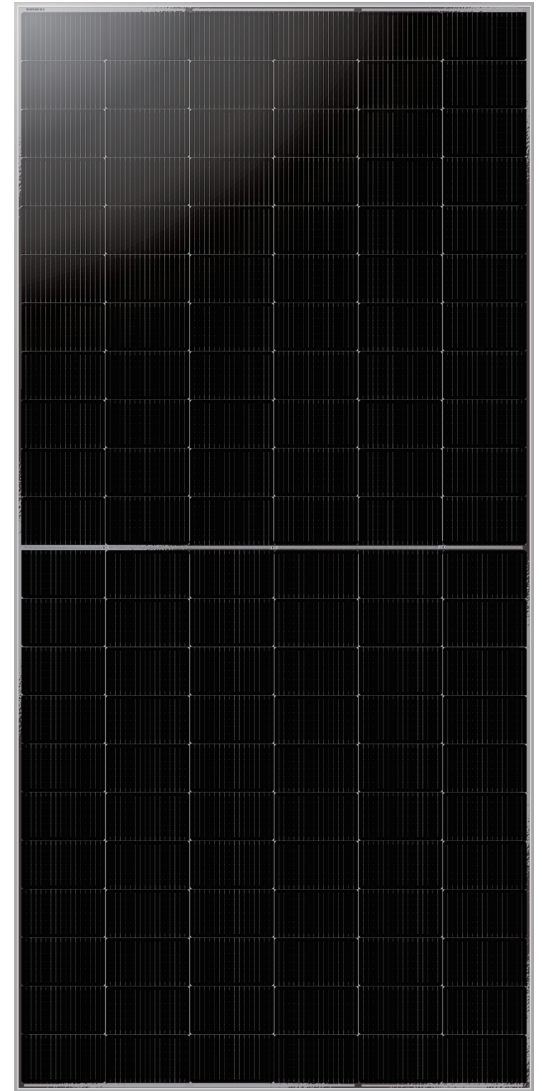
Lower LCOE

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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DOUBLE GLASS BIFACIAL 600~625Watt



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

OPERATING PARAMETERS

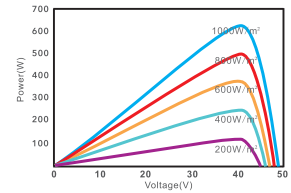
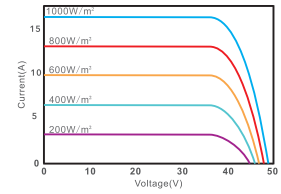
Operating Temperature	-40°C~85°C
Maximum system voltage	DC1500V(IEC)
Maximum series fuse rating	30A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

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)

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	IP68,3diodes	
Connector	MC4 Compatible:PV-UL608 or Original:MC4-EVO2 or others	
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



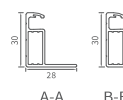
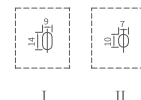
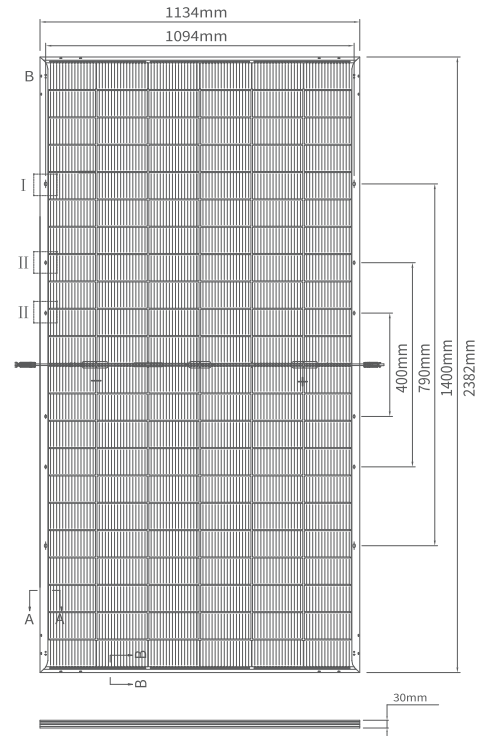
Height:2540mm



Weight:2365kg/Stack



10 Stack/40HQ
720Pcs/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