

Mate Pro^{Veil} series

Double Glass Bifacial N-Type TOPCon Solar Module

610~635W

Model: UL-***M-132DDGN

Maximum Efficiency: **23.51%**



Bifacial Mono Module

Bifaciality: 80±5%



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

2mm+2mm front and back sides tempered glass, sturdy and durable, resistant to hail impact, with a snow load of 5400Pa and a wind load of 2400Pa



Anti-PID(Potential induced degradation)

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



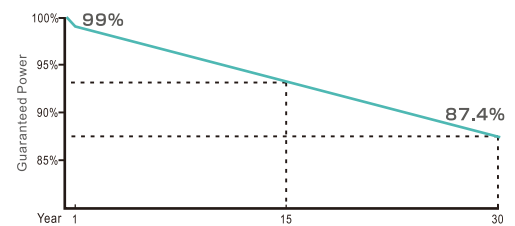
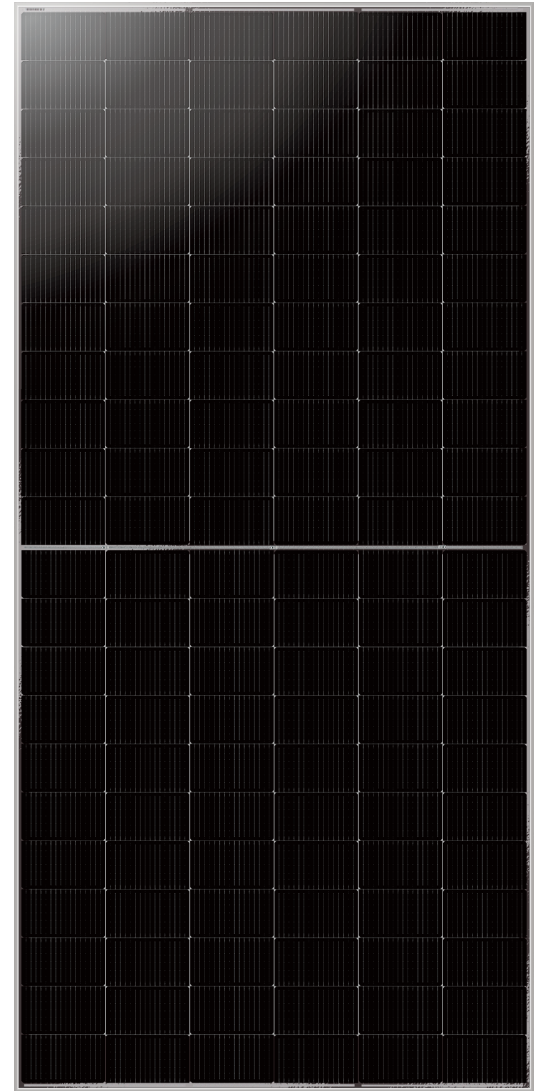
Lower LCOE

Lower shading and resistive loss Lower temperature coefficient



Full-Scenario Resilience

Proven through rigorous resistance tests for salt mist, ammonia corrosion, sand & dust



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)

EN 13501-1 & EN 13501-5(Fire Test)



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DOUBLE GLASS BIFACIAL 610~635W



ELECTRICAL SPECIFICATIONS

Module Type	UL-610M-132DDGN			UL-615M-132DDGN		UL-620M-132DDGN		UL-625M-132DDGN		UL-630M-132DDGN		UL-635M-132DDGN	
	STC*	NOCT*		STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*
Maximum Power(Pmax)	W	610	462	615	466	620	470	625	474	630	477	635	481
Maximum Power Voltage(Vmp)	V	40.54	37.29	40.72	37.46	40.90	37.63	40.98	37.70	41.08	37.79	41.21	37.91
Maximum Power Current(Imp)	A	15.05	12.40	15.10	12.44	15.16	12.49	15.25	12.56	15.34	12.63	15.41	12.69
Open-circuit Voltage(Voc)	V	48.68	44.30	48.88	44.48	49.08	44.66	49.12	44.70	49.15	44.73	49.18	44.75
Short-circuit Current(Isc)	A	15.96	12.87	16.02	12.92	16.08	12.97	16.10	12.99	16.15	13.03	16.18	13.05
Module Efficiency STC	%	22.58		22.77		22.95		23.14		23.32		23.51	

*STC:Cell temperature:25°C,Irradiance:1000W/m²,Air mass:1.5G,Power measurement tolerance: ±3%
 *NOCT:Air temperature:20°C,Irradiance:800W/m²,Air mass:1.5G,Wind speed:1m/s

OPERATING PARAMETERS

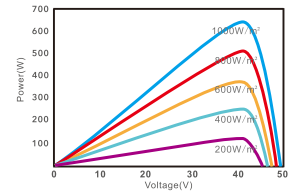
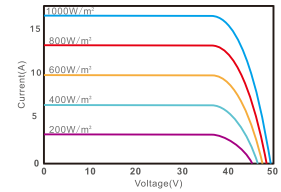
Operating Temperature	-40°C~85°C
Maximum system voltage	DC 1500V(IEC)
Maximum series fuse rating	30A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

TEMPERATURE RATINGS

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

I-V CURVE

I-V characteristics at different irradiances (reference to 635 W)

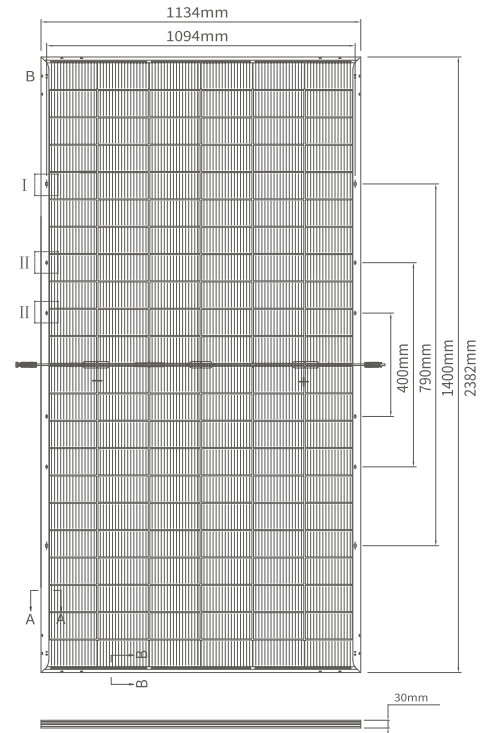


REAR SIDE POWER GAIN(REFERENCE TO 635W FRONT SIDE)

Pmax/W	635	667	699	730	762	794	826
Pmax gain	0%	5%	10%	15%	20%	25%	30%
Voc/V	49.18	49.18	49.18	49.18	49.18	49.18	49.18
Isc/A	16.18	16.99	17.80	18.61	19.42	20.23	21.03
Vmp/V	41.21	41.21	41.21	41.21	41.21	41.21	41.21
Imp/A	15.41	16.18	16.95	17.72	18.49	19.26	20.03

SPECIFICATIONS

Cell Type	N-type TOPCon Mono Half Cell	
No.of cells	132(6×11×2)	
Dimensions	2382*1134*30mm	
Weight	32.7kg	
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 or Original:MC4-EVO2A or others	
Cable Length (Including Connector)	4mm ² 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

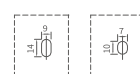


Weight:2437kg/Stack



10 Stacks/40'HQ
720pcs/40'HQ

B4-



I



II



A-A



B-B

Length:±2mm
Width:±2mm
Height:±1mm
Row Pitch:±2mm



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-V4.2