

Mate series

Double Glass Bifacial N-Type TOPCon Solar Module

575~600W

Model: UL-***M-144ADGN

Maximum Efficiency: **23.23%**



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



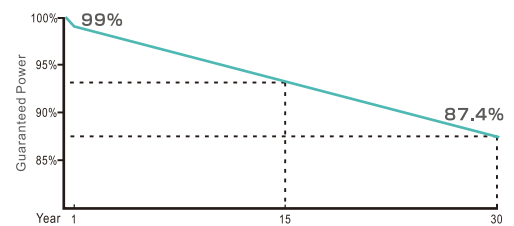
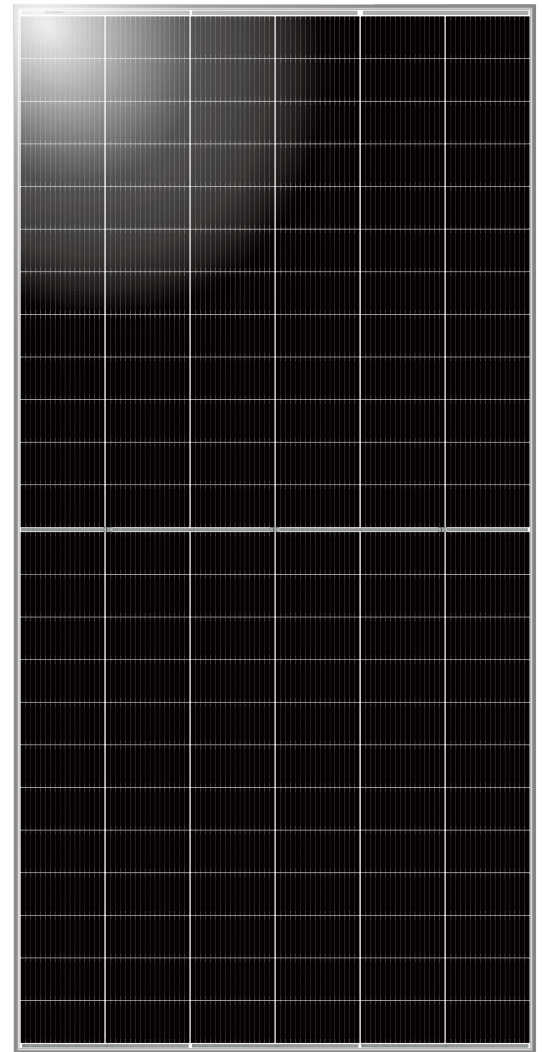
Lower LCOE

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 575~600W



ELECTRICAL SPECIFICATIONS

Module Type	UL-575M-144ADGN			UL-580M-144ADGN			UL-585M-144ADGN			UL-590M-144ADGN			UL-595M-144ADGN			UL-600M-144ADGN		
	STC*	NOCT*		STC*	NOCT*		STC*	NOCT*		STC*	NOCT*		STC*	NOCT*		STC*	NOCT*	
Maximum Power(Pmax)	W	575	436	580	440		585	443		590	447		595	451		600	455	
Maximum Power Voltage(Vmp)	V	43.85	40.34	44.02	40.50		44.17	40.64		44.35	40.80		44.55	40.99		44.71	41.13	
Maximum Power Current(Imp)	A	13.11	10.80	13.18	10.85		13.24	10.91		13.30	10.96		13.36	11.00		13.42	11.05	
Open-circuit Voltage(Voc)	V	52.32	47.61	52.52	47.79		52.72	47.98		52.82	48.07		52.92	48.16		53.02	48.25	
Short-circuit Current(Isc)	A	13.89	11.20	13.95	11.25		14.01	11.30		14.02	11.31		14.06	11.34		14.09	11.37	
Module Efficiency STC	%	22.26		22.45			22.65			22.84			23.03			23.23		

*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

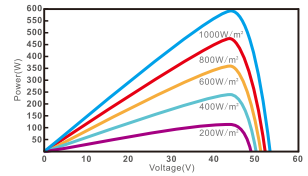
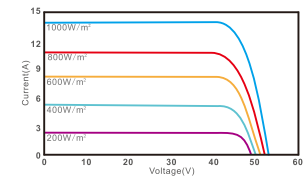
Temperature coefficient of Pmax -0.29%/°C

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 600 W)



REAR SIDE POWER GAIN(REFERENCE TO 600W FRONT SIDE)

Pmax/W	600	630	660	690	720	750	780
Pmax gain	0%	5%	10%	15%	20%	25%	30%
Voc/V	53.02	53.02	53.02	53.02	53.02	53.02	53.02
Isc/A	14.09	14.79	15.50	16.20	16.91	17.61	18.32
Vmp/V	44.71	44.71	44.71	44.71	44.71	44.71	44.71
Imp/A	13.42	14.09	14.76	15.43	16.10	16.78	17.45

SPECIFICATIONS

Cell Type	N-type TOPCon Mono Half Cell	
No.of cells	144(6×12×2)	
Dimensions	2278*1134*30mm	
Weight	31.2kg	
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



37 Pcs/Pallet



74 Pcs/Stack



Length:2295mm



Width:1140mm



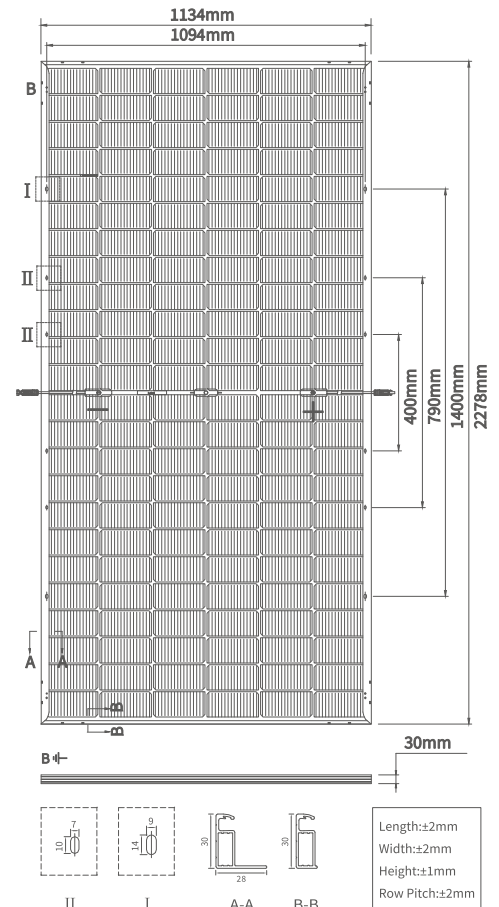
Height:2540mm



Weight:2389kg/Stack



10 Stacks/40'HQ
740pcs/40'HQ



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

Ulica Solar reserves the right of final interpretation.

Version number: UL-2278-144ADGNBB-30-EN-V3.2