

Mate series

Singe Glass Mono-Facial N-Type TOPCon Solar Module

570~595W

Model: UL-***M-144AHVN

Maximum Efficiency: **23.03%**



Outstanding Mechanical load Resistance

2400 Pa wind load, 5400 Pa snow load



Longer Term Reliability

Successfully passed TUV IEC test



Lower LCOE

Lower shading and resistive loss Lower temperature coefficient



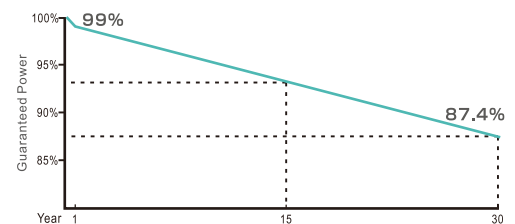
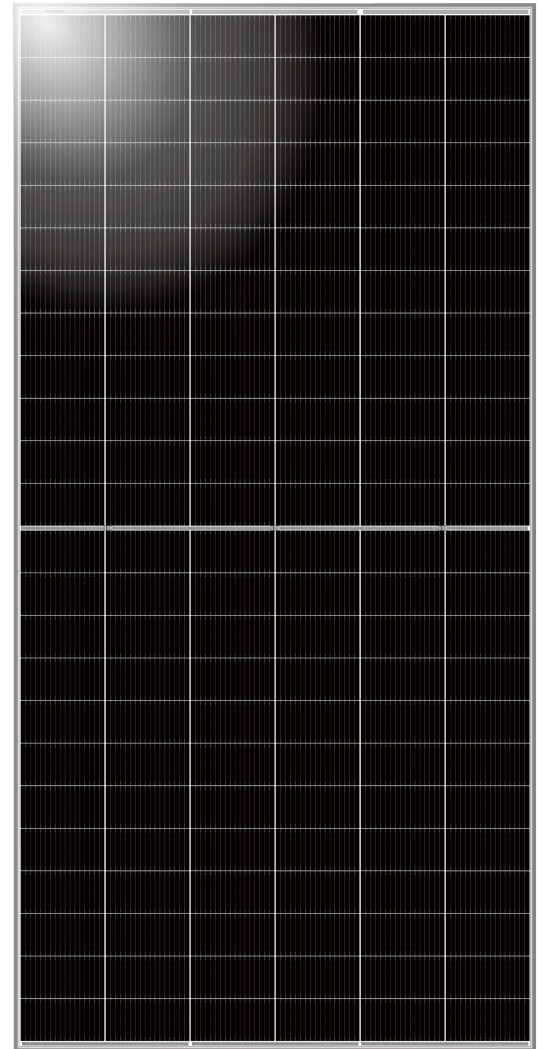
Anti-PID(Potential induced degradation)

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



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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MONO-FACIAL MODULE 570~595W



ELECTRICAL SPECIFICATIONS

Module Type	UL-570M-144AHVN			UL-575M-144AHVN		UL-580M-144AHVN		UL-585M-144AHVN		UL-590M-144AHVN		UL-595M-144AHVN	
	STC*	NOCT*		STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*
Maximum Power(Pmax)	W	570	432	575	436	580	440	585	443	590	447	595	451
Maximum Power Voltage(Vmp)	V	43.70	40.20	43.85	40.34	44.02	40.50	44.17	40.64	44.35	40.80	44.55	40.99
Maximum Power Current(Impp)	A	13.04	10.74	13.11	10.80	13.18	10.85	13.24	10.91	13.30	10.96	13.36	11.00
Open-circuit Voltage(Voc)	V	52.12	47.43	52.32	47.61	52.52	47.79	52.72	47.98	52.82	48.07	52.92	48.16
Short-circuit Current(Isc)	A	13.83	11.16	13.89	11.20	13.95	11.25	14.01	11.30	14.02	11.31	14.06	11.34
Module Efficiency STC	%	22.07		22.26		22.45		22.65		22.84		23.03	

*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	25A
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

SPECIFICATIONS

Cell Type	N-type TOPCon Mono Half Cell		
No. of cells	144(6×12×2)		
Dimensions	2278*1134*30mm		
Weight	26.3kg		
Front Glass	3.2mm,Anti-Reflection Coating,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)	4mm² 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



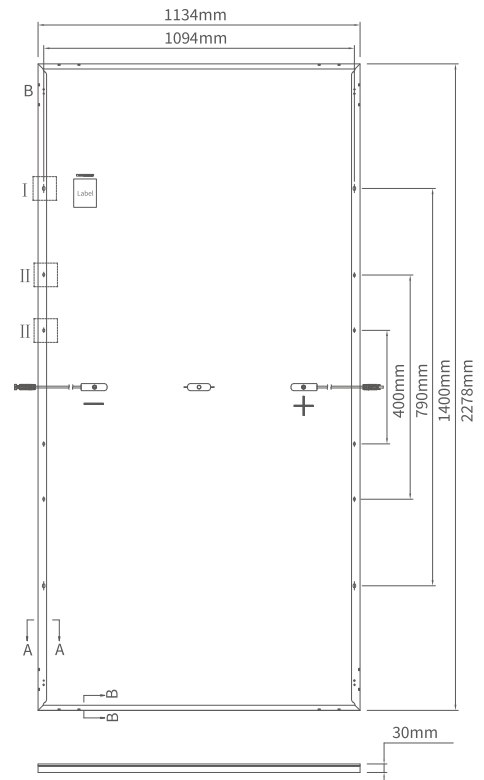
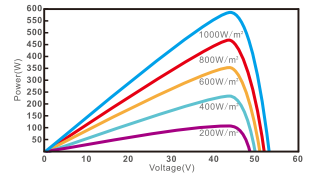
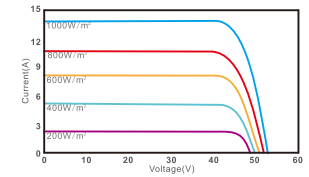
Weight:2027kg/Stack



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

I-V CURVE

I-V characteristics at different irradiances (reference to 595 W)



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

Ulica Solar reserves the right of final interpretation.

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