

# 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



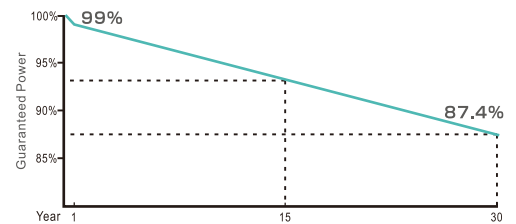
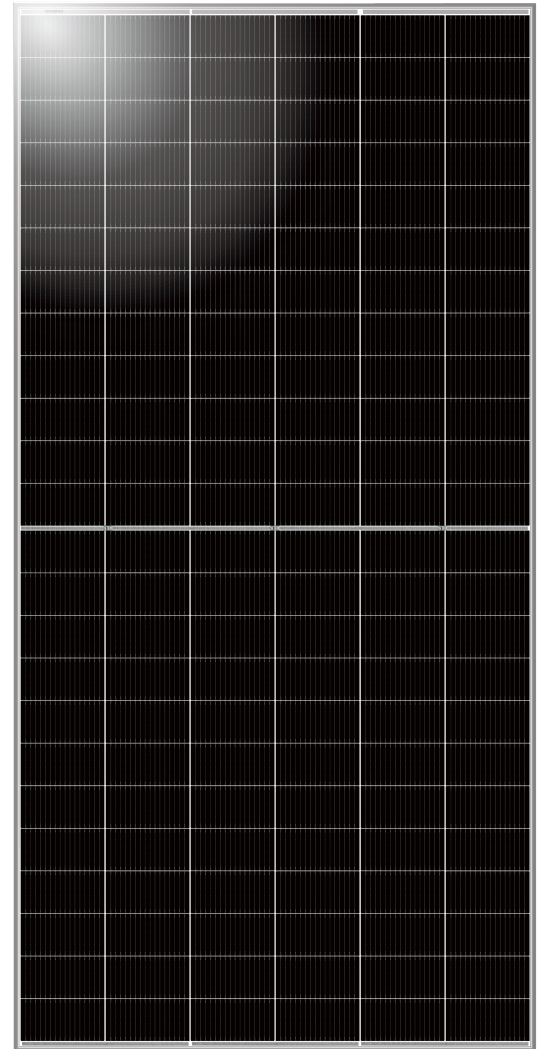
### Anti-PID(potential induced degradation)

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, and LeTID degradation



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

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

IEC 61215, IEC 61730

ISO 9001: 2015(Quality management systems)

ISO 14001: 2015 (Environmental management systems)

ISO45001: 2018 (Occupational health and safety)

UNI 9177 Fire Test: Class 1



CEC Listed



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## 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(Imp)	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 Current(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: 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	25A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

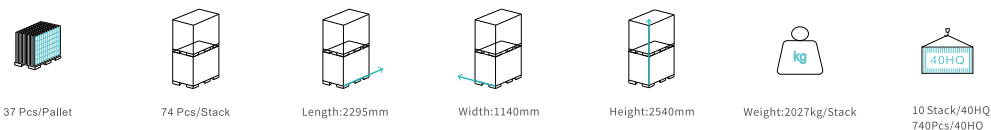
## TEMPERATURE RATINGS

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

## SPECIFICATIONS

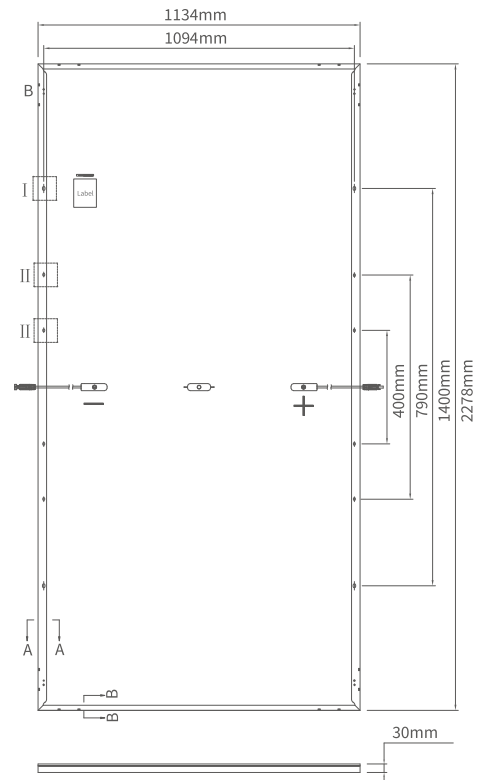
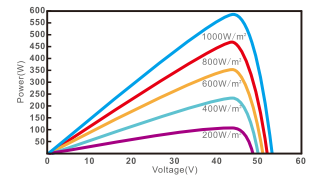
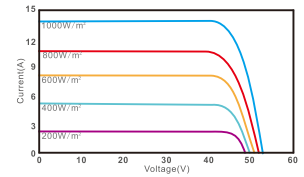
Cell Type	N-type TOPCon Mono Half Cell	
No. of cells	144(6×12×2)	
Dimensions	2278*1134*30mm	
Weight	26.3kg	
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68, 3 diodes	
Connector	MC4 Compatible: PV-UL608 or Original: MC4-EVO2A or others	
Cable Length (Including Connector)	4mm² Short Cable: (+)400/(-)200mm or Long Cable: (+)1400/(-)1400mm or Customized Length	

## PACKAGING INFORMATION



## 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-2278-144AHVNBB-30-EN-V3.1