

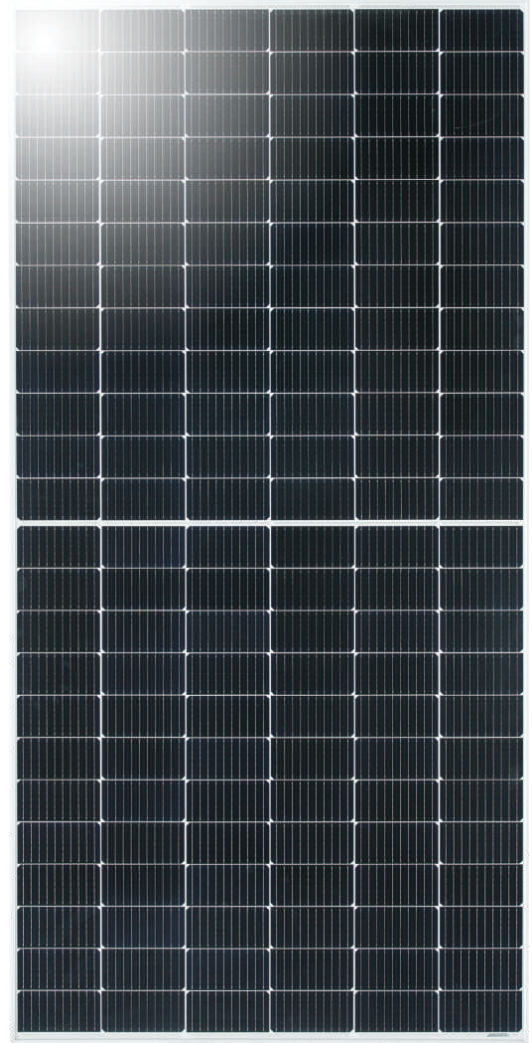
P-Type Perc

Singe Glass Mono-Facial TOPCon Solar Module

530~555W

Model: UL-***M-144HV

Maximum Efficiency: **21.48%**



Outstanding Mechanical load Resistance

2400 Pa wind load, 5400 Pa snow load



Great Durability Against Extreme Conditions

Passed salt mist corrosion test, ammonia corrosion test, dust & sand test, fire test, all certified by TUV



Lower LCOE

Lower shading and resistive loss Lower temperature coefficient



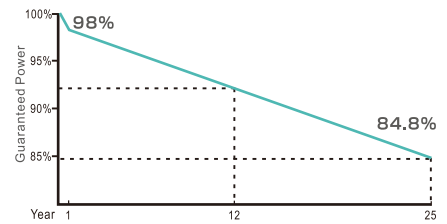
Anti-PID(potential induced degradation)

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



12 Year Product Warranty **2%** Power Degradation In The First Year
25 Year Linear Power Warranty **0.55%** 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



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MONO-FACIAL MODULE 530~555Watt



ELECTRICAL SPECIFICATIONS

Module Type	UL-530M-144HV		UL-535M-144HV		UL-540M-144HV		UL-545M-144HV		UL-550M-144HV		UL-555M-144HV		
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	
Maximum Power(Pmax)	W	530	397	535	436	540	440	545	408	550	412	555	416
Maximum Power Voltage(Vmp)	V	41.50	38.18	41.60	38.27	41.70	38.36	41.80	38.46	41.90	38.55	42.00	38.64
Maximum Power Current(Imp)	A	12.77	10.39	12.86	10.47	12.95	10.54	13.04	10.61	13.13	10.68	13.21	10.76
Open-circuit Current(Voc)	V	49.60	45.14	49.70	45.23	49.80	45.32	49.90	45.41	50.00	45.50	50.10	45.59
Short-circuit Current(Isc)	A	13.47	10.87	13.54	10.93	13.60	10.98	13.65	11.02	13.75	11.10	13.83	11.16
Module Efficiency STC	%	20.51		20.70		20.89		21.09		21.28		21.48	

*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

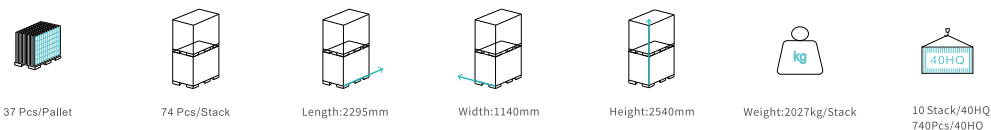
TEMPERATURE RATINGS

Temperature coefficients of Pmax	-0.34%/°C
Temperature coefficients of Voc	-0.265%/°C
Temperature coefficients of Isc	0.049%/°C

SPECIFICATIONS

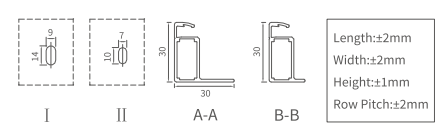
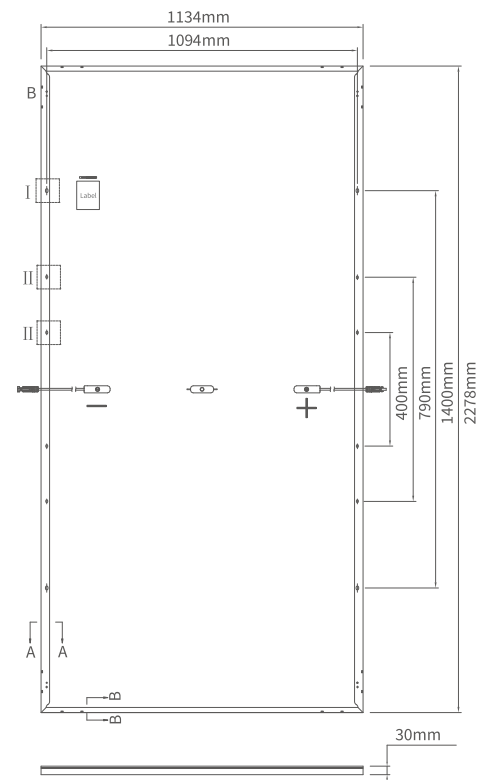
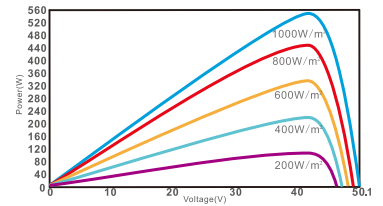
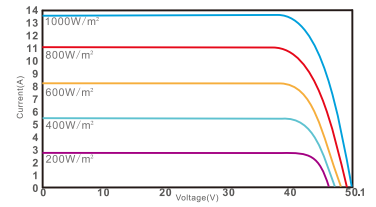
Cell Type	N-type TOPCon Mono Half Cell	
No. of cells	144(6×12×2)	
Dimensions	2278*1134*30mm	
Weight	26.3kg	
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68, 3 diodes	
Connector	MC4 Compatible: PV-UL608 or others	Original: MC4-EVO2A
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 555 W)



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

Ulica Solar reserves the right of final interpretation.

Version number: UL-2278-144HVBB-30-EN-V1.1