

Heron series

Singe Glass Mono-Facial N-Type TOPCon Solar Module

435~460W

Model: UL-***M-108BHVN

Maximum Efficiency: **23.02%**



Cutting Free Technology

The half cells are made directly from half silicon wafer, reducing power losses and hidden cracks



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



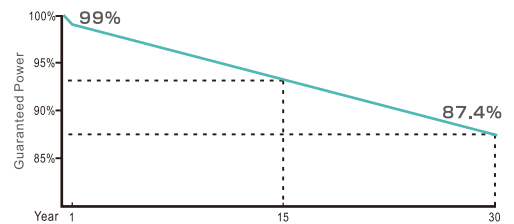
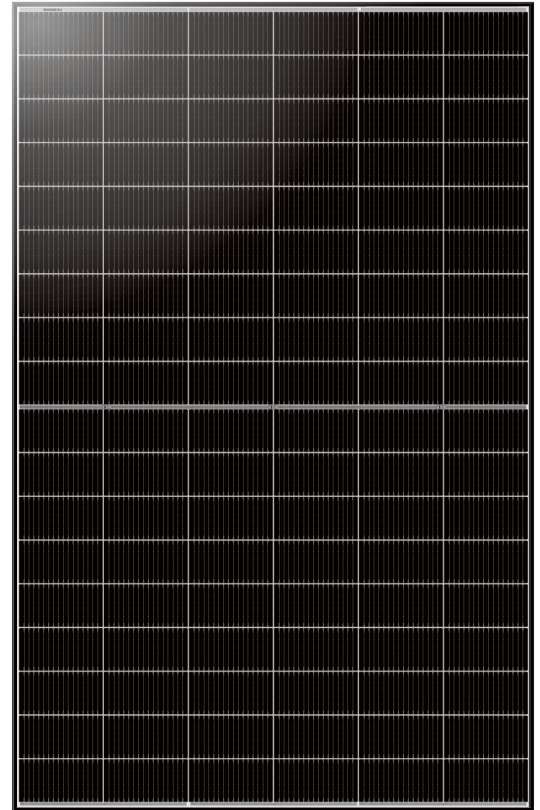
Anti-PID(potential induced degradation)

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



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ELECTRICAL SPECIFICATIONS

Module Type	UL-435M-108BHVN		UL-440M-108BHVN		UL-445M-108BHVN		UL-450M-108BHVN		UL-455M-108BHVN		UL-460M-108BHVN		
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	
Maximum Power(Pmax)	W	435	330	440	333	445	337	450	341	455	345	460	348
Maximum Power Voltage(Vmp)	V	32.87	30.24	32.91	30.28	33.02	30.38	33.22	30.56	33.42	30.75	33.63	30.94
Maximum Power Current(Imp)	A	13.24	10.90	13.37	11.01	13.48	11.10	13.55	11.16	13.61	11.21	13.68	11.27
Open-circuit Current(Voc)	V	39.18	35.65	39.38	35.84	39.58	36.02	39.78	36.20	39.98	36.38	40.18	36.56
Short-circuit Current(Isc)	A	14.15	11.41	14.22	11.47	14.30	11.53	14.38	11.60	14.45	11.66	14.46	11.67
Module Efficiency STC	%	21.77		22.02		22.27		22.52		22.77		23.02	

*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

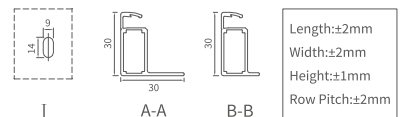
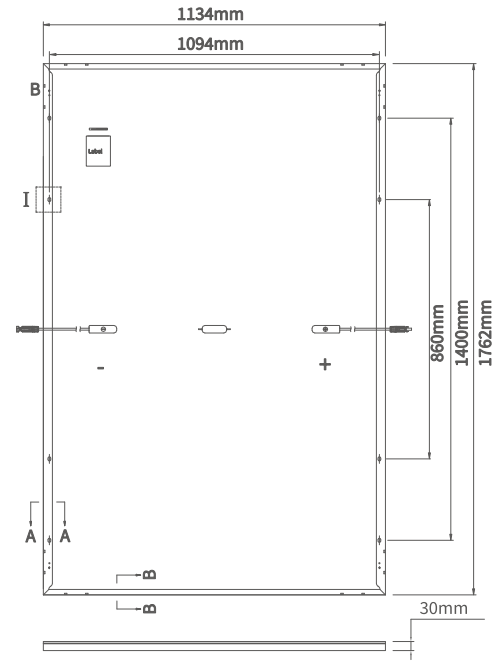
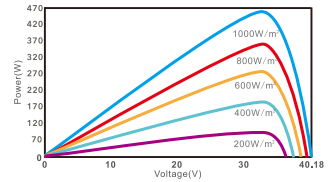
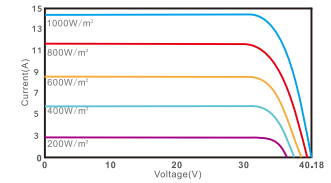
SPECIFICATIONS

Cell Type	N-type TOPCon Mono Half Cell	
No. of cells	108(6×9×2)	
Dimensions	1762*1134*30mm	
Weight	20.7kg	
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: (+)1200/(-)1200mm or Customized Length	

PACKAGING INFORMATION

I-V CURVE

I-V characteristics at different irradiances (reference to 460 W)



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

Ulica Solar reserves the right of final interpretation.

Version number: UL-1762-108BHVBH-30-EN-V3.1