www.ulicasolar.com

Heron series

Singe Glass Mono-Facial N-Type TOPCon Solar Module

430~455Watt

Model: UL-***M-108BHVN

Maximum Efficiency: 22.77%

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

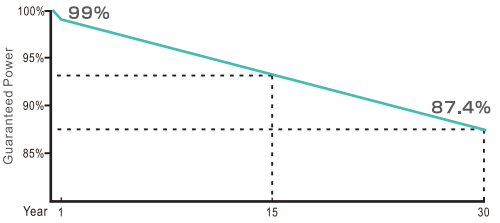
Anti-PID(potential induced degradation)

PID FREE

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

Widely Applied To Various Scenarios

Flexibly applied to roofs, ground surfaces, water surfaces, mountainous areas, and other diverse environments



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)

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MONO-FACIAL MODULE 430~455Watt

ELECTRICAL SPECIFICATIONS

Module Type		UL-430M-108BHVN		UL-435M-108BHVN		UL-440M-108BHVN		UL-445M-108BHVN		UL-450M-108BHVN		UL-455M-108BHVN	
		STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*
Maximum Power(Pmax)	W	430	326	435	330	440	333	445	337	450	341	455	345
Maximum Power Voltage(Vmp)	V	32.72	30.10	32.87	30.24	32.91	30.28	33.02	30.38	33.22	30.56	33.42	30.75
Maximum Power Current(Imp)	A	13.14	10.82	13.24	10.90	13.37	11.01	13.48	11.10	13.55	11.16	13.61	11.21
Open-circuit Current(Voc)	V	38.97	35.46	39.18	35.65	39.38	35.84	39.58	36.02	39.78	36.20	39.98	36.38
Short-circuit Current(Isc)	A	14.10	11.37	14.15	11.41	14.22	11.47	14.30	11.53	14.38	11.60	14.45	11.66
Module Efficiency STC	%	21.52		21.77		22.02		22.27		22.52		22.77	

*STC:Cell temperature:25°C,Irradiance:1000W/m²,Ari mass:1.5G,Power measurement tolerance: ±3%
*NOCT:Air temperature:20°C,Irradiance:1000W/m²,Ari mass:1.5G,Wind speed:1m/s

OPERATING PARAMETERS

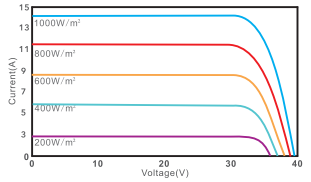
Operating Temperature	-40°C~85°C
Maximum system voltage	DC1500V(IEC)
Maximum series fuse rating	25A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

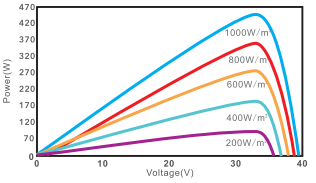
TEMPERATURE RATINGS

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

I-V CURVE

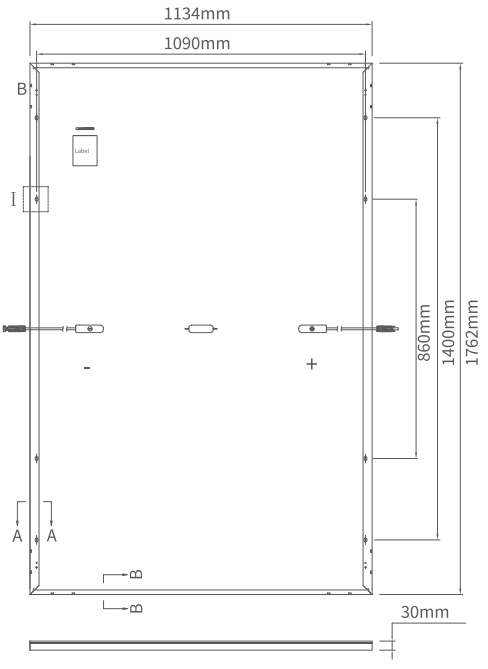
I-V characteristics at different irradiations (reference to 450 W)





SPECIFICATIONS

Cell Type	N-type TOPCon Mono Half Cell
No.of cells	108(6×9×2)
Dimensions	1762*1134*30mm
Weight	21.0kg
Front Glass	3.2mm,Anti-Reflection Coating,High Transmission,Low Iron,Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68,3diodes
Connector	◉ MC4 Compatible:PV-UL608 or ○ Original:MC4-EVO2 or ○ others _____
Cable Length (Including Connector)	4mm² ○ Short Cable: (+)400/(-)200mm or ◉ Long Cable:(+)1200/(-)1200mm or ○ Customized Length _____



PACKAGING INFORMATION

36 Pcs/Pallet

72 Pcs/Stack

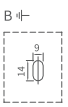
Length:1775mm

Width:1130mm

Height:2540mm

Weight:1576kg/Stack

13 Stack/40HQ
936 Pcs/40HQ



I

B-B

A-A

Length:±2mm
Width:±2mm
Height:±1mm
Row Pitch:±2mm

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

Ulica Solar reserves the right of final interpretation.

Version number: UL-1762-108BHVNBH-30-EN-V2.0