

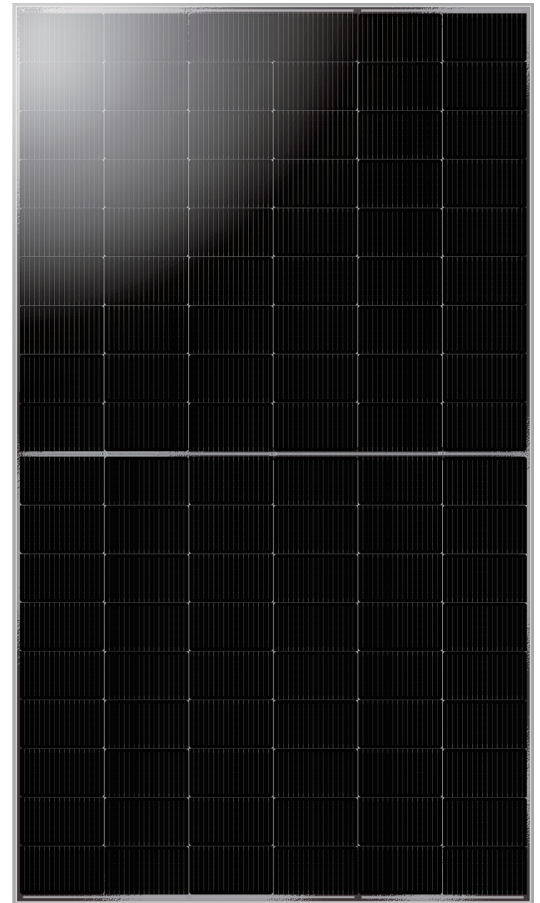
# Heron<sup>Veil</sup> series

Double Glass BiFacial N-Type TOPCon Solar Module

## 485~510 Watt

Model: UL-\*\*\*M-108DDGN

Maximum Efficiency: **22.93%**



### Bifacial Mono Module

Capable of generating power at back side, 80±5% efficiency of the front side



### Longer Term Reliability

Passed the IEC63209-1:2021 standard test (With testing standards 2 to 3 times stricter than regular IEC requirements)



### Outstanding Mechanical load Resistance

2400 Pa wind load, 5400 Pa snow load



### Anti-PID(potential induced degradation)

Passed anti-PID test under 85°C damp heat 85% relative humidity for 192 hours



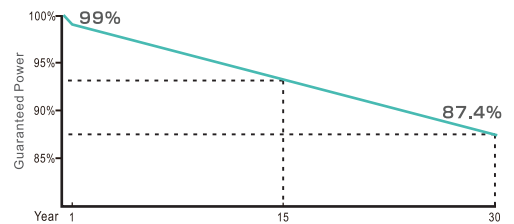
### Lower LCOE

Lower shading and resistive loss Lower temperature coefficient



### 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



CEC Listed



IEC 61215, IEC 61730

ISO 9001: 2015(Quality management systems)

ISO 14001: 2015 (Environmental management systems)

ISO45001: 2018 (Occupational health and safety)

UNI 9177 Ia CLASSE DI REAZIONE AL FUOCO:1



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## ELECTRICAL SPECIFICATIONS

Module Type	UL-485M-108DDGN		UL-490M-108DDGN		UL-495M-108DDGN		UL-500M-108DDGN		UL-505M-108DDGN		UL-510M-108DDGN		
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	
Maximum Power(Pmax)	W	485	368	490	371	495	375	500	379	505	383	510	386
Maximum Power Voltage(Vmp)	V	32.72	30.10	32.87	30.24	33.02	30.38	33.17	30.52	33.32	30.65	33.47	30.79
Maximum Power Current(Imp)	A	14.83	11.21	14.91	12.28	14.99	12.35	15.08	12.42	15.16	12.48	15.24	12.55
Open-circuit Current(Voc)	V	39.34	35.80	39.50	35.95	39.67	36.10	39.83	36.25	39.99	36.39	40.16	36.55
Short-circuit Current(Isc)	A	15.78	12.73	15.84	12.78	15.90	12.83	15.96	12.87	16.02	12.92	16.08	12.97
Module Efficiency STC	%	21.81		22.03		22.26		22.48		22.71		22.93	

\*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

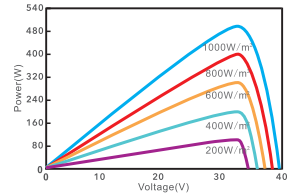
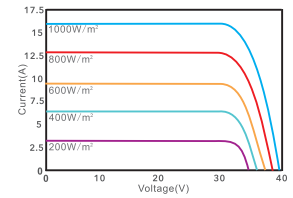
Operating Temperature	-40°C~85°C
Maximum system voltage	DC1500V(IEC)
Maximum series fuse rating	30A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

## 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 irradiances (reference to 500 W)



## REAR SIDE POWER GAIN(REFERENCE TO 500W FRONT SIDE)

	500	525	550	575	600	625	650
Pmax/W	500	525	550	575	600	625	650
Pmax gain	0%	5%	10%	15%	20%	25%	30%
Voc/V	39.83	39.83	39.83	39.83	39.83	39.83	39.83
Isc/A	15.96	16.76	17.56	18.35	19.15	19.95	20.75
Vmp/V	33.17	33.17	33.17	33.17	33.17	33.17	33.17
Imp/A	15.08	15.83	16.59	17.34	18.10	18.85	19.60

## SPECIFICATIONS

Cell Type	N-type TOPCon Mono Half Cell	
No. of cells	108(6×9×2)	
Dimensions	1961*1134*30mm	
Weight	26.3kg	
Front Glass	2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Back Glass	2.0mm, High Transmission, Low Iron, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68, 3 diodes	
Connector	MC4 Compatible: PV-UL608 or others _____	Original: MC4-EVO2
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: 1975mm



Width: 1130mm



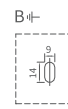
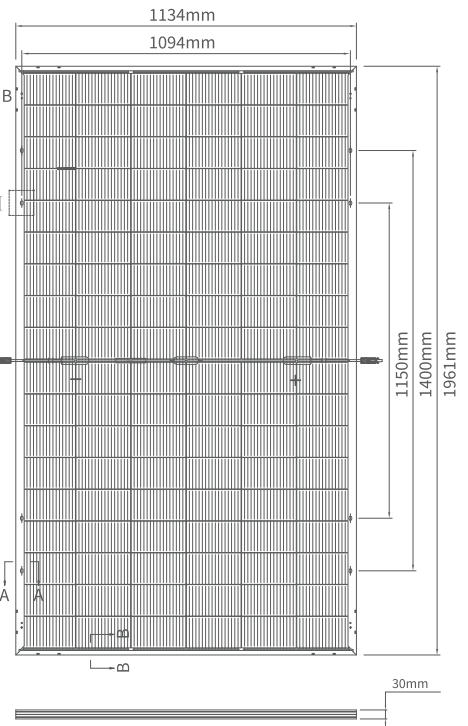
Height: 2540mm



Weight: 1962kg/Stack



12 Stack/40HQ  
864 Pcs/40HQ



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



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

Ulica Solar reserves the right of final interpretation.

Version number: UL-1961-108DDGNYB-30A1-ENS-V1.0