

Phoenix^{Veil} series

Double Glass Bifacial N-Type TOPCon Solar Module

625~650Watt

Model: UL-***M-156ADGN

Maximum Efficiency: **23.25%**



Bifacial Mono Module

Bifaciality: 80±5%



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

2mm+2mm front and back sides tempered glass, sturdy and durable, resistant to hail impact, with a snow load of 5400Pa and a wind load of 2400Pa



Anti-PID(Potential induced degradation)

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



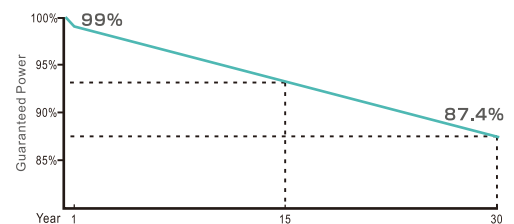
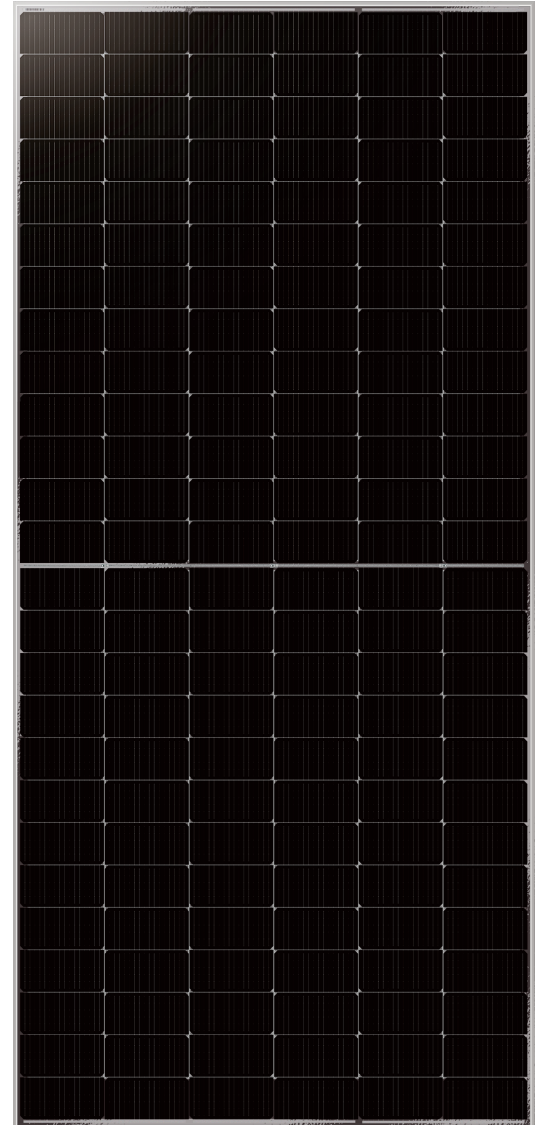
Lower LCOE

Lower shading and resistive loss Lower temperature coefficient



Full-Scenario Resilience

Proven through rigorous resistance tests for salt mist, ammonia corrosion, sand & dust



15 Year Product Warranty **1%** Power Degradation In the first Year

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



CEC Listed



هيئة كهرباء ومياه دبي
Dubai Electricity & Water Authority

IEC 61215, IEC 61730

ISO 9001: 2015(Quality management systems)

ISO 14001: 2015 (Environmental management systems)

ISO45001: 2018 (Occupational health and safety)

EN 13501-1 & EN 13501-5(Fire Test)



Ulica Official Website

Add: No.238, Yunlin Middle Road, Gulin Town Haishu District, Ningbo, China

TEL: +86-0574-28828999

Email: sales@ulsolar.com.cn

DOUBLE GLASS BIFACIAL 625~650W



ELECTRICAL SPECIFICATIONS

Module Type	UL-625M-156ADGN			UL-630M-156ADGN		UL-635M-156ADGN		UL-640M-156ADGN		UL-645M-156ADGN		UL-650M-156ADGN	
	STC*	NOCT*		STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*
Maximum Power(Pmax)	W	625	474	630	477	635	481	640	485	645	489	650	493
Maximum Power Voltage(Vmp)	V	46.10	42.41	46.28	42.58	46.48	42.76	46.68	42.95	46.88	43.13	47.08	43.31
Maximum Power Current(Imp)	A	13.56	11.17	13.61	11.21	13.66	11.25	13.71	11.29	13.76	11.33	13.81	11.37
Open-circuit Voltage(Voc)	V	56.95	51.82	57.08	51.94	57.21	52.06	57.41	52.24	57.61	52.43	57.81	52.61
Short-circuit Current(Isc)	A	13.80	11.13	13.86	11.18	13.92	11.23	13.97	11.27	13.99	11.28	14.03	11.32
Module Efficiency STC	%	22.36		22.54		22.72		22.90		23.07		23.25	

*STC:Cell temperature:25°C,Irradiance:1000W/m²,Air mass:1.5G,Power measurement tolerance: ±3%
 *NOCT:Air temperature:20°C,Irradiance:800W/m²,Air mass:1.5G,Wind speed:1m/s

OPERATING PARAMETERS

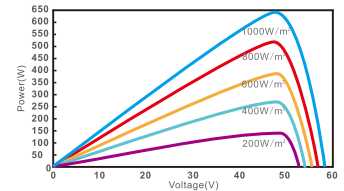
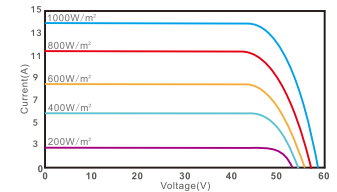
Operating Temperature	-40°C~85°C
Maximum system voltage	DC 1500V(IEC)
Maximum series fuse rating	30A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

TEMPERATURE RATINGS

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

I-V CURVE

I-V characteristics at different irradiances (reference to 650 W)



REAR SIDE POWER GAIN(REFERENCE TO 650W FRONT SIDE)

Pmax/W	650	683	715	748	780	813	845
Pmax gain	0%	5%	10%	15%	20%	25%	30%
Voc/V	57.81	57.81	57.81	57.81	57.81	57.81	57.81
Isc/A	14.03	14.73	15.43	16.13	16.84	17.54	18.24
Vmp/V	47.08	47.08	47.08	47.08	47.08	47.08	47.08
Imp/A	13.81	14.50	15.19	15.88	16.57	17.26	17.95

SPECIFICATIONS

Cell Type	N-type TOPCon Mono Half Cell	
No.of cells	156(6×13×2)	
Dimensions	2465*1134*30mm	
Weight	33.8kg	
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 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



37 Pcs/Pallet



74 Pcs/Stack



Length:2480mm



Width:1140mm



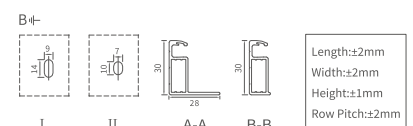
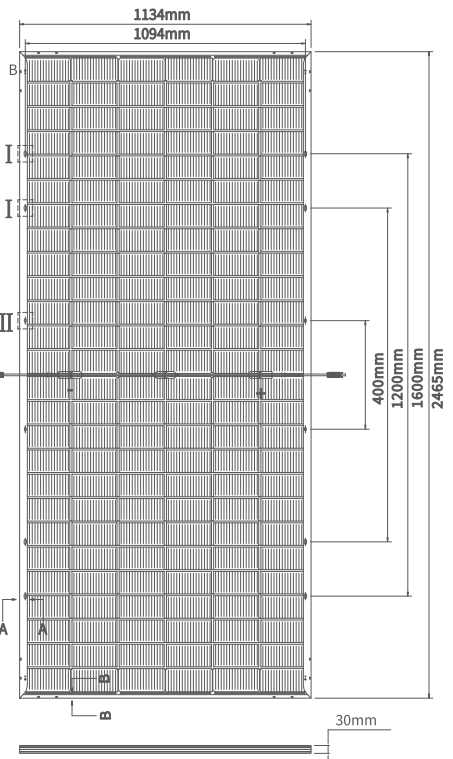
Height:2540mm



Weight:2597kg/Stack



8 Stacks/40'HQ
592pcs/40'HQ



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

Ulica Solar reserves the right of final interpretation.

Version number: UL-2465-156ADGNBY-30-EN-V1.2