

Phoenix^{Veil} series

Double Glass Bifacial N-Type TOPCon Solar Module

625~650 Watt

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



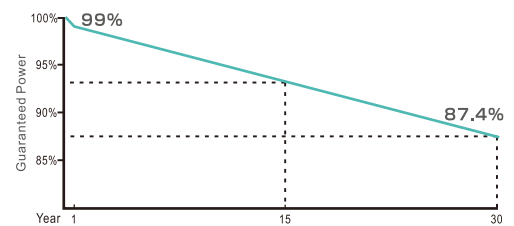
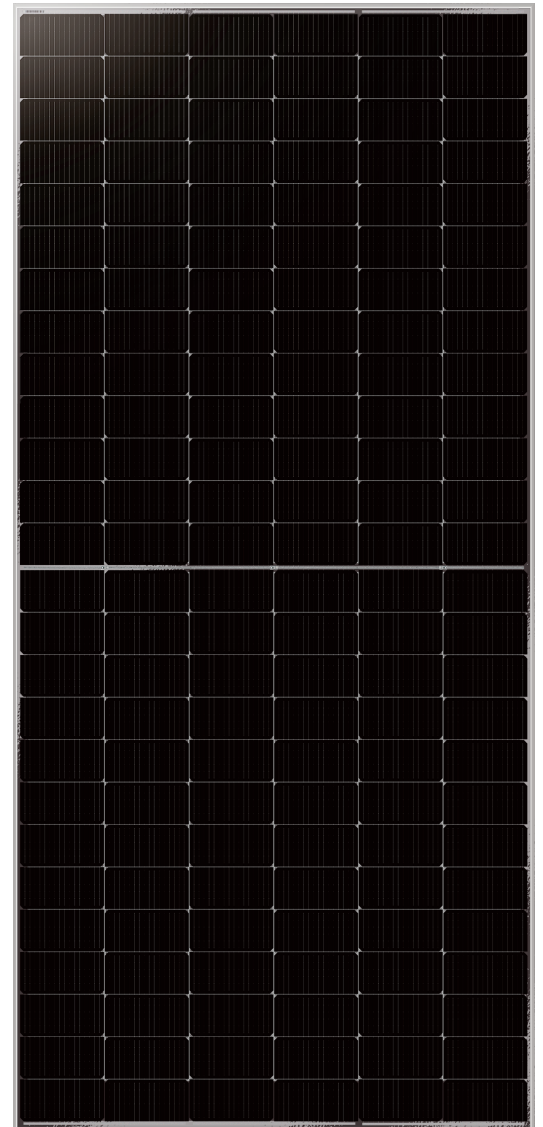
Lower LCOE

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



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)



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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

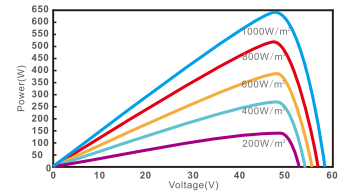
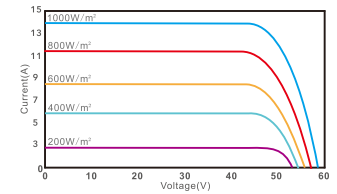
Operating Temperature	-40°C~85°C
Maximum system voltage	DC 1500V(IEC)
Maximum series fuse rating	30A
Nominal operating cell temperature	43±2°C
Power tolerance	0~+5Watt

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



36 Pcs/Pallet



72 Pcs/Stack



Length:2480mm



Width:1130mm



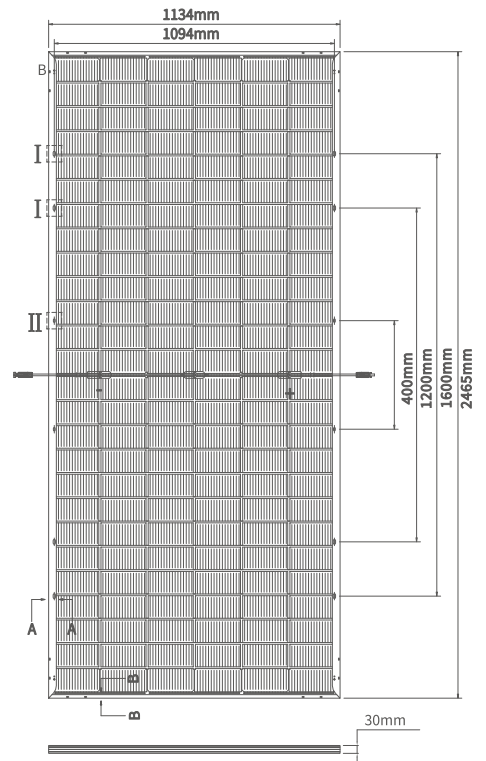
Height:2540mm



Weight:2529kg/Stack



8 Stacks/40'HQ
576pcs/40'HQ



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

Ulica Solar reserves the right of final interpretation.

Version number: UL-2465-156ADGNBYB-30D1-EN-V1.0