

# VEGA SERIES™ | Mono-Bifacial

Power Output Range

395Wp - 415Wp

Solar Cell Technology

Altairon Solar Cell™ | P-Type PERC

### Efficiency:

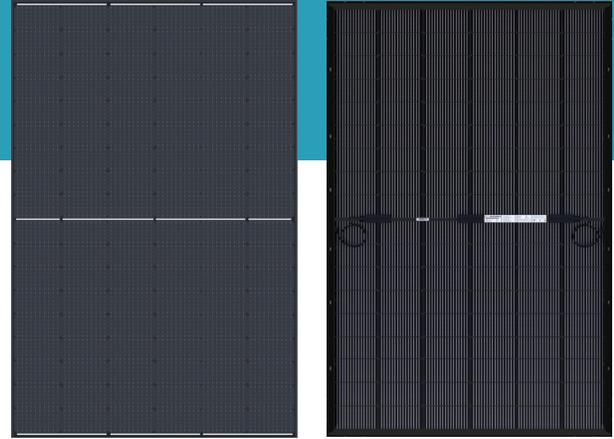
Up to 21.25% Module Efficiency  
Power Tolerance 0~+5W

### Durability:

30-year Performance  
Warranty

### Technology:

Perc cell technology  
Mono-Bifacial / Double Glass



Product Code-BVM7609M-XXX-H-HC-BF-DG

## PRODUCT FEATURES & BENEFITS



### Design to Perform

- High energy yield and faster ROI
- High efficiency up to 21.25%
- Improved IAM and Low Irradiance performance
- Lower temperature coefficient



### Build to Last

- Mechanical load up to +5400, -2400
- Anti-LeTID and PID performance
- Micro crack resistance
- Impact of inter-row resistance
- Improve current flow



### Best Value

- Perc cell technology with 70±5% bifaciality
- Lower Balance of system cost (BOS)
- Reduced levelized cost of energy (LCOE)

A RELIABLE, TRUSTED,  
LONG-TERM INDUSTRY PARTNER



## PRODUCT WARRANTY

### Warranty Details

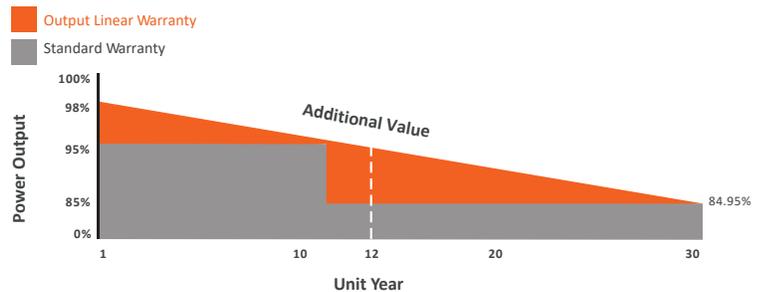
12 Year product warranty

30 Year linear product warranty

### Power Degradation

First year power degradation no more than 2.0%

Subsequent annual power degradation no more than 0.45%



## PRODUCT CERTIFICATIONS & TESTS

UL 61730 | IEC 61215 | IEC 61730 | CEC Listed | CE  
IEC 62716, IEC 61701 Ammonia, Salt mist corrosion test  
IEC TS 62804-1, IEC 60068-2-68PID test, Dust and Sand test  
UL 61730 Fire Performance Type 29

### Management System I Certificates

ISO 9001 | Quality management system  
ISO 14001 | Environmental management system  
ISO 45001 | Occupational health and safety management system

\*Please contact Boviet Solar representative for a full list of certificates according to local requirements and PV module product type.



BNEF Tier 1  
PV Module manufacturers  
Since 2017



PVEL PV Module Reliability  
Scorecard Top Performer  
Since 2019



Supply Chain  
Traceability Protocol



Environmental, Social, &  
Corporate Governance Protocol



Made in USA  
Since Q1 2025



Made in Vietnam  
Since 2013

**ELECTRICAL CHARACTERISTICS | STC**

Maximum Power -Pmax (W)	395	400	405	410	415
Maximum Power Current -Imp (A)	12.58	12.67	12.75	12.83	12.91
Maximum Power Voltage -Vmp (V)	31.41	31.60	31.79	31.97	32.16
Short Circuit Current -Isc (A)	13.38	13.47	13.56	13.65	13.74
Open Circuit Voltage -Voc (V)	37.18	37.35	37.52	37.69	37.86
Module Efficiency	20.23%	20.48%	20.74%	21.00%	21.25%
Power Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5

STC: AM1.5 Irradiance 1000W/m<sup>2</sup>, 25° C

**ELECTRICAL CHARACTERISTICS | NOCT**

Maximum Power -Pmax (W)	395	400	405	410	415
Maximum Power -Pmax (W)	298.70	302.48	306.26	310.04	313.82
Maximum Power Current -Imp (A)	10.20	10.28	10.34	10.41	10.47
Maximum Power Voltage -Vmp (V)	29.28	29.46	29.63	29.80	29.98
Short Circuit Current -Isc (A)	10.75	10.83	10.90	10.97	11.04
Open Circuit Voltage -Voc (V)	34.83	34.99	35.15	35.31	35.47

NOCT: AM 1.5 Irradiance 800W/m<sup>2</sup>, 20° C, Wind speed 1m/s

**MECHANICAL CHARACTERISTICS**

Solar Cell	Monocrystalline   PERC PV Cells   Half-cut 10 Busbar   108 (6 x 18) pcs in series
Solar Modules	Bifacial   1722 x 1134 x 30mm (67.80 x 44.65 x 1.18 inch) Weight: 24 kg ± 5% (52.91 lb ± 5%)
Module Front Glass	2.0 mm (0.079 inch) High transparency, low iron, AR Coated tempered Glass
Module Frame	Frame 30 mm (1.18 inch) Ultra-strong anodized aluminum alloy frame
Module Junction Box	IP68 rated   3 bypass diodes
Module Output Cable	4mm <sup>2</sup>   Length: (+)1000mm (39.37 inch), (-)1000mm (39.37 inch)
Module Connector	JM608
Module Encapsulant	POE
Module Back Glass	2.0mm thickness, transparent with a grid.
Module Fire Type	Type 29 Fire rated

**PACKING INFORMATION**

Pieces per pallet:	36 PCS
Pallets per container (40HQ):	26 pallets
Pieces per container (40HQ):	936 PCS
Pallet Weight:	909 kg (2004.002 lb)
Pallet Dimension:	1942 x 1135 x 1257 mm (76.46 x 44.69 x 49.49 inch)

**THERMAL CHARACTERISTICS**

Pmax Temperature Coefficient	-0.35%/K
Voc Temperature Coefficient	-0.285%/K
Isc Temperature Coefficient	+0.05%/K
NOCT	113±35.6°F

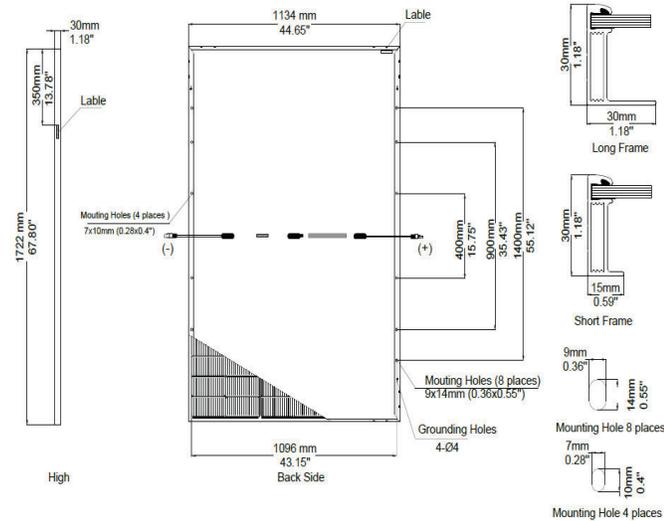
**MAXIMUM RATING**

Operating Temperature	-40°F~185°F
Maximum Series Fuse Rating	30A
Maximum System Voltage	1500V DC
Bifacial Ratio	70±5%

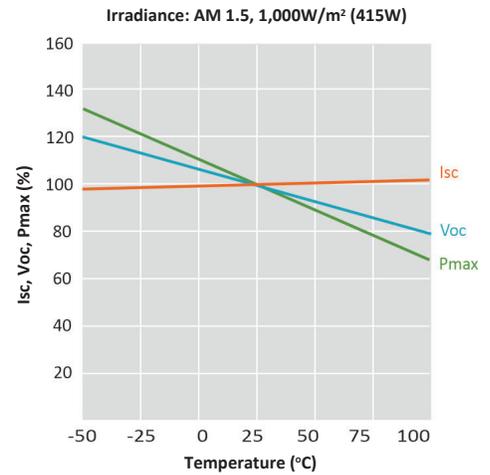
**BIFACIAL OUTPUT-BACKSIDE POWER**

10%	Pmax(W)	434.5	440	445.5	451	456.5
	Module efficiency	22.25%	22.53%	22.81%	23.10%	23.38%
20%	Pmax(W)	474	480	486	492	498
	Module efficiency	24.27%	24.58%	24.89%	25.20%	25.50%

**PV Module: Mechanical Drawing**



**PV Module: Temperature Coefficient**



**PV Module: IV Curve**

