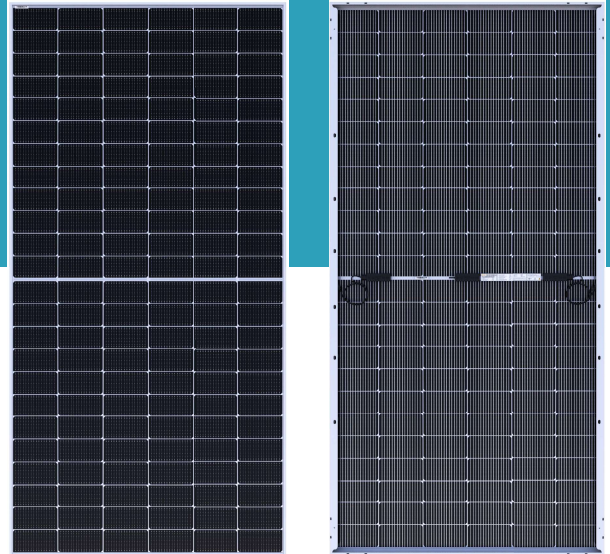


# VEGA SERIES™

Power Output Range  
565Wp - 590Wp

Solar Cell Technology  
N-Type



Product Code-BVM7612M-XXX-H-HC-BF-DG

### Efficiency:

Up to 22.84% Module Efficiency  
Power Tolerance 0~+5W

### Durability:

30-year Performance  
Warranty

### Technology:

N-Type cell technology  
Mono-Bifacial / Double glass

## PRODUCT FEATURES & BENEFITS



### Design to Perform

- High energy yield and faster ROI
- High efficiency up to 22.84%
- 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

- N-type cell technology with 80±5% bifaciality
- Lower Balance of system cost (BOS)
- Reduced levelized cost of energy (LCOE)

A RELIABLE, TRUSTED,  
LONG-TERM INDUSTRY PARTNER



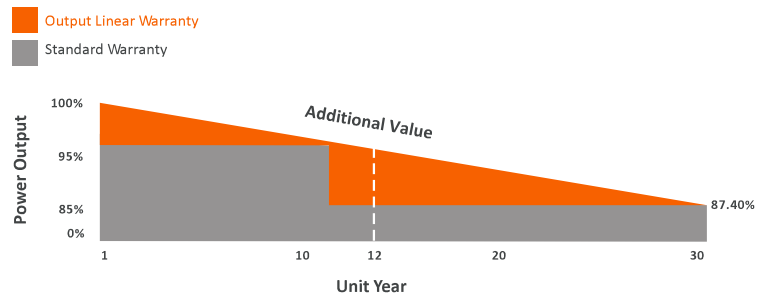
## PRODUCT WARRANTY

### Warranty Details

12 Year product warranty  
30 Year linear product warranty

### Power Degradation

First year power degradation no more than 1%  
Subsequent annual power degradation no more than 0.4%



## PRODUCT CERTIFICATIONS & TESTS

UL 61730 | IEC 61215 | IEC 61730 | CE Listed  
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 | 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)	565	570	575	580	585	590
Maximum Power Current -Imp (A)	12.84	12.91	12.97	13.04	13.10	13.17
Maximum Power Voltage -Vmp (V)	44.03	44.18	44.34	44.50	44.66	44.82
Short Circuit Current -Isc (A)	13.70	13.77	13.84	13.91	13.98	14.05
Open Circuit Voltage -Voc (V)	51.85	52.04	52.23	52.42	52.61	52.80
Module Efficiency	21.78%	22.07%	22.26%	22.45%	22.65%	22.84%
Power Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5	0~+5

STC: AM1.5 Irradiance 1000W/m², 25° C

**ELECTRICAL CHARACTERISTICS | NOCT**

Maximum Power -Pmax (W)	565	570	575	580	585	590
Maximum Power -Pmax (W)	427.25	431.03	434.81	438.59	442.37	446.33
Maximum Power Current -Imp (A)	10.41	10.47	10.52	10.58	10.64	10.68
Maximum Power Voltage -Vmp (V)	41.04	41.18	41.33	41.48	41.62	41.78
Short Circuit Current -Isc (A)	11.01	11.07	11.12	11.18	11.24	11.29
Open Circuit Voltage -Voc (V)	48.58	48.76	48.94	49.11	49.28	49.47

NOCT: AM 1.5 Irradiance 800W/m², 20° C, Wind speed 1m/s

**MECHANICAL CHARACTERISTICS**

Solar Cell	Monocrystalline I N-Type PV Cells I Half-cut 16 Busbar I 144 (6 x 24) pcs in series
Solar Modules	Bifacial I 2278 x 1134 x 35 mm (89.69 x 44.65 x 1.38 inch) Weight: 32 kg ± 5% (70.55 lb ± 5%)
Module Front Glass	2.0mm (0.079 inch) High transparency, low iron, AR Coated tempered Glass
Module Frame	Frame 35 mm (1.38 inch) Anodized aluminum alloy frame
Module Junction Box	IP68 rated I 3 bypass diodes
Module Output Cable	4mm² I Length: (+)350mm (13.78 inch), (-)350mm (13.78 inch)
Module Connector	JM608
Module Encapsulant	POE/EVA
Module Back Glass	2.0mm thickness, transparent with a grid
Module Fire Type	Type 29 Fire rated

**PACKING INFORMATION**

Pieces per pallet:	31 pcs
Pallets per container (40HQ):	20 pallets
Pieces per container (40HQ):	620 pcs
Pallet Weight:	1042 kg (2297.22 lb)
Pallet Dimension:	2303 x 1135 x 1257 mm (90.67 x 44.69 x 49.49 inch)

**THERMAL CHARACTERISTICS**

Pmax Temperature Coefficient	-0.30%/K
Voc Temperature Coefficient	-0.25%/K
Isc Temperature Coefficient	+0.046%/K
NOCT	113±35.6°F

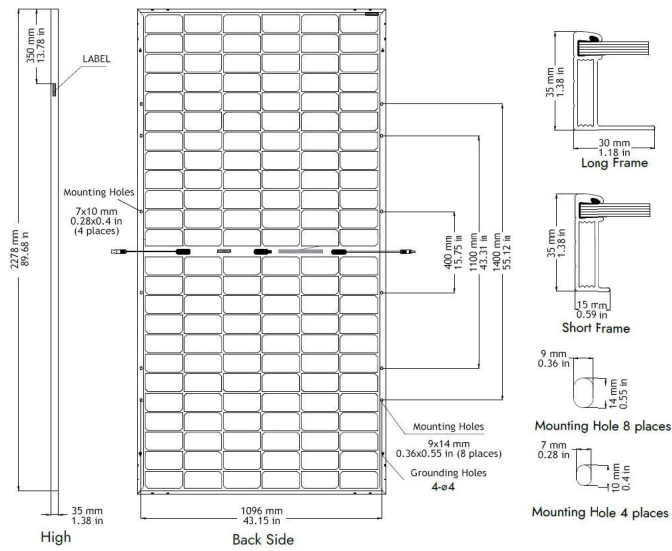
**MAXIMUM RATING**

Operating Temperature	-40°F~185°F
Maximum Series Fuse Rating	30A
Maximum System Voltage	1500V DC
Bifacial Ratio	80±5%

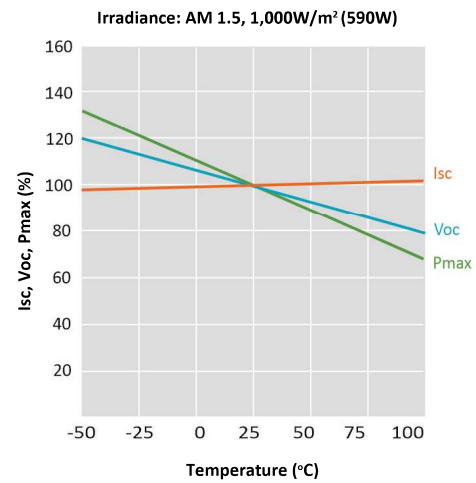
**BIFACIAL OUTPUT-BACKSIDE POWER**

10%	Pmax(W)	621.5	627	632.5	638	643.5	649
	Module efficiency	24.06%	24.27%	24.48%	24.70%	24.91%	25.12%
20%	Pmax(W)	678	684	690	696	702	708
	Module efficiency	26.25%	26.48%	26.71%	26.94%	27.18%	27.41%

**PV Module: Mechanical Drawing**



**PV Module: Temperature Coefficient**



**PV Module: IV Curve**

