

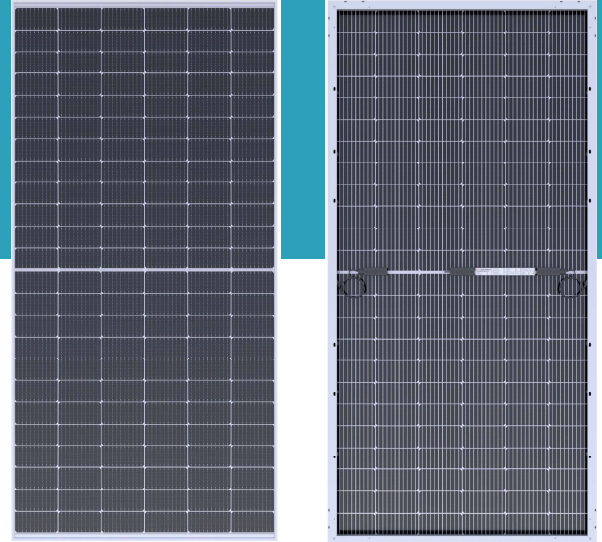
## VEGA SERIES™

Power Output Range

530Wp - 555Wp

Solar Cell Technology

PERC



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

### Efficiency:

Up to 21.32% Module Efficiency  
Power Tolerance 0~+5W

### Durability:

30-year Performance  
Warranty

### Technology:

Perc cell technology  
Mono-Bifacial / Double Glass

### PRODUCT FEATURES & BENEFITS



#### Design to Perform

- High energy yield and faster ROI
- High efficiency up to 21.32%
- 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

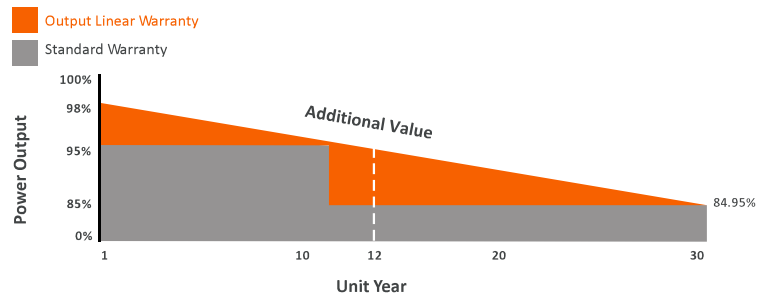
12 Year product warranty

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 | 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.

BloombergNEF

BNEF Tier 1  
PV Module manufacturers  
Since 2017

PVEL member of group kiwa

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)	530	535	540	545	550	555
Maximum Power Current -Imp (A)	12.66	12.71	12.76	12.82	12.88	12.95
Maximum Power Voltage -Vmp (V)	41.94	42.17	42.40	42.58	42.76	42.93
Short Circuit Current -Isc (A)	13.43	13.48	13.55	13.72	13.84	14.08
Open Circuit Voltage -Voc (V)	49.71	49.80	49.89	49.98	50.13	50.20
Module Efficiency	20.36%	20.55%	20.74%	20.93%	21.12%	21.32%
Power Tolerance (W)	0~+5	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)	530	535	540	545	550	555
Maximum Power -Pmax (W)	401.48	405.27	409.09	412.75	416.44	420.37
Maximum Power Current -Imp (A)	10.27	10.31	10.35	10.40	10.45	10.50
Maximum Power Voltage -Vmp (V)	39.10V	39.31V	39.53	39.69	39.86	40.02
Short Circuit Current -Isc (A)	10.79	10.83	10.89	11.03	11.12	11.32
Open Circuit Voltage -Voc (V)	46.57	46.66	46.74	46.83	46.97	47.03

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   144 (6x24) pcs in series
Solar Modules	Bifacial   2296 x 1134 x 35mm (90.40 x 44.65 x 1.38 inch) Weight: 33.5 kg ± 5% (73.86 lb ± 5%)
Module Front Glass	2.0 mm (0.079 inch) High transparency, low iron, AR Coated tempered Glass
Module Frame	Frame 35 mm (1.38 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:	31 PCS
Pallets per container (40HQ):	20 pallets
Pieces per container (40HQ):	620 PCS
Pallet Weight:	1088.5 kg (2399.73 lb)
Pallet Dimension:	2321 x 1135 x 1257 mm (91.38 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

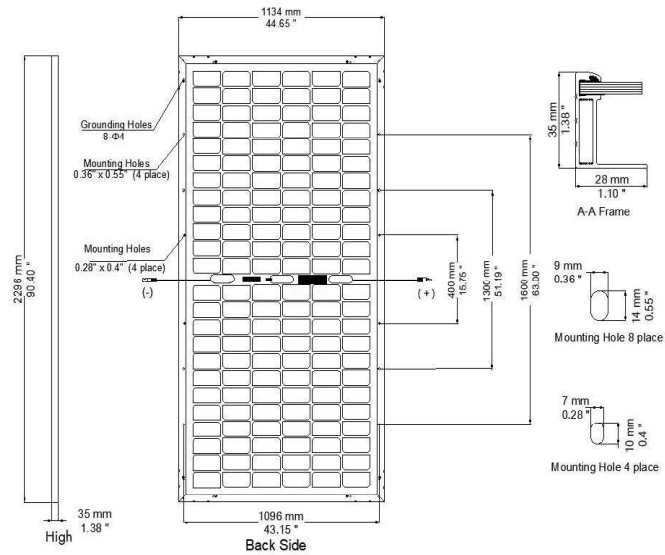
**MAXIMUM RATING**

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

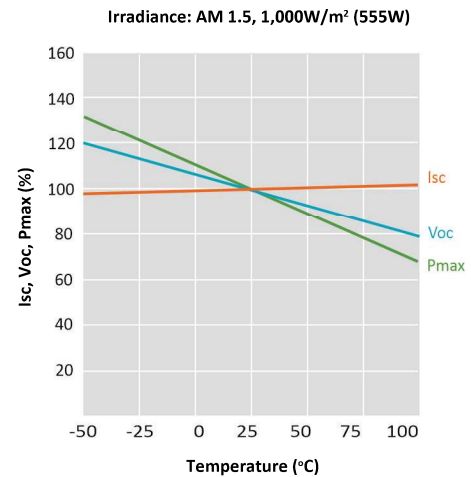
**BIFACIAL OUTPUT-BACKSIDE POWER**

10%	Pmax(W)	583	589	594	600	605	611
	Module efficiency	22.39%	22.60%	22.81%	23.03%	23.24%	23.45%
20%	Pmax(W)	636	642	648	654	660	666
	Module efficiency	24.43%	24.66%	24.89%	25.12%	25.35%	25.58%

**PV Module: Mechanical Drawing**



**PV Module: Temperature Coefficient**



**PV Module: IV Curve**

