

VEGA SERIES™

Power Output Range

530Wp - 555Wp

Solar Cell Technology

PERC

Efficiency:

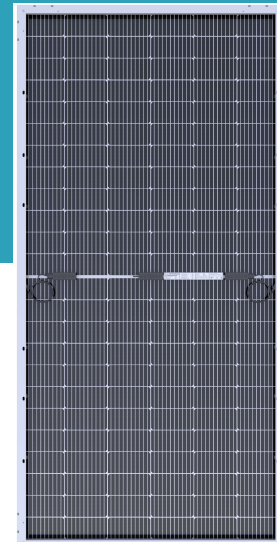
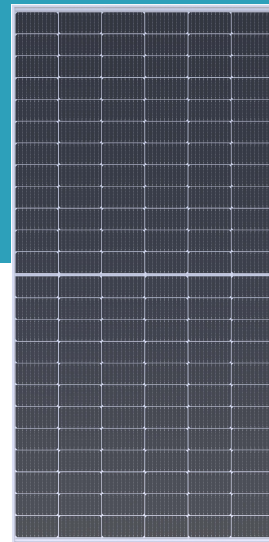
Up to 21.32% Module Efficiency
Power Tolerance 0~+5W

Durability:

30-year Performance
Warranty

Technology:

Perc cell technology
Mono-Bifacial / Single Glass



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

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

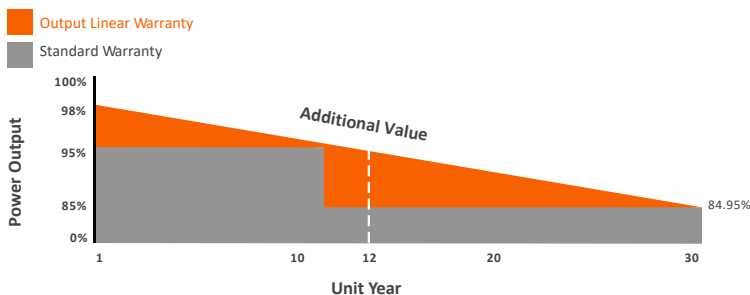
12 Year product warranty

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 1

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.

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 Program



Environmental, Social, &
Corporate Governance Protocol



Made in USA
Starting Q1 2025

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/m², 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/m², 20° C, Wind speed 1m/s

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline I PERC PV Cells 182mm Cell I Half-cut I 10 Busbar I 144 (6x24) pcs in series
Solar Modules	Bifacial I 2296 x 1134 x 35mm (90.40 x 44.65 x 1.38 inch) Weight: 29 kg ± 5% (63.93 lb ± 5%)
Module Front Glass	3.2 mm (0.126 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 I 3 bypass diodes
Module Output Cable	4mm ² I Length: (+)1000mm (39.37 inch), (-)1000mm (39.37 inch)
Module Connector	JM608
Module Encapsulant	POE/EVA
Module Backsheet	Transparent with grid
Module Fire Type	Type 1 Fire rated

PACKING INFORMATION

Pieces per pallet:	31 PCS
Pallets per container (40HQ):	20 pallets
Pieces per container (40HQ):	620 PCS
Pallet Weight:	949 kg (2092.19 lb)
Pallet Dimension:	2321 x 1135 x 1257mm (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

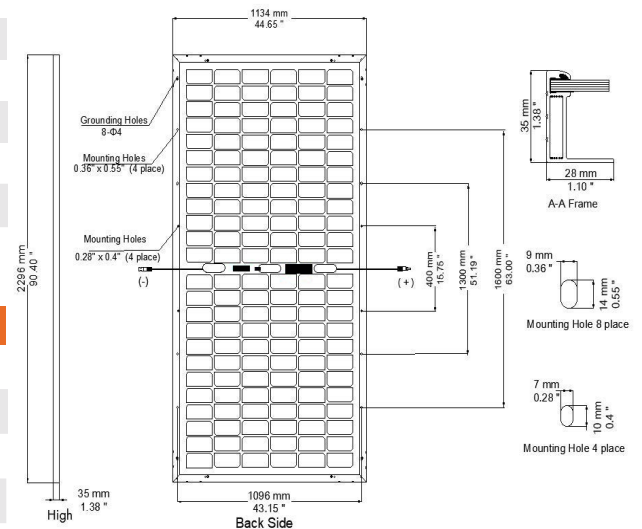
MAXIMUM RATING

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

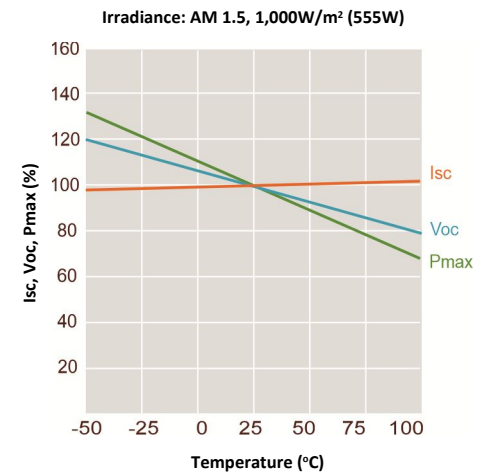
BIFACIAL OUTPUT-BACKSIDE POWER

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

