

# VEGA SERIES™ | Mono-Bifacial

Power Output Range

530Wp - 555Wp

Solar Cell Technology

Altairon Solar Cell™ | P-Type PERC

## Efficiency:

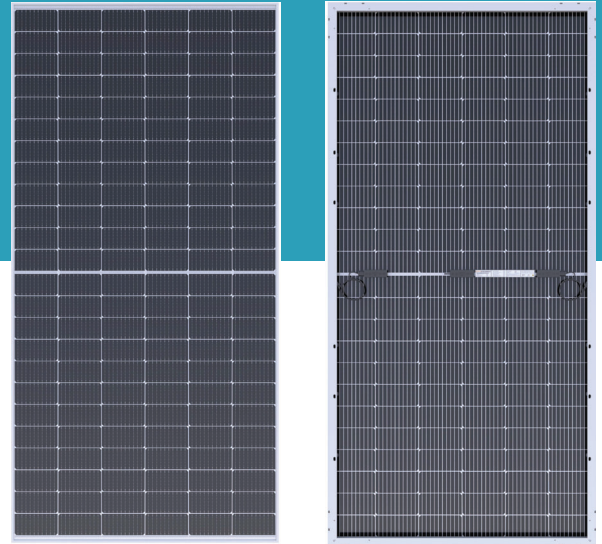
Up to 21.32% Module Efficiency  
Power Tolerance 0~+5W

## 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

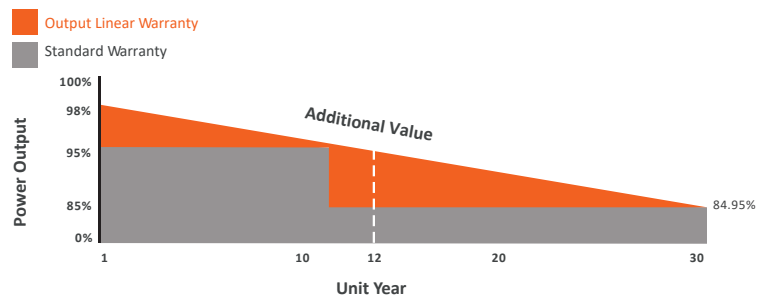
12 Year product warranty

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 | Certificates

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

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



## 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 I PERC PV Cells I Half-cut<br>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)<br>Weight: 29 kg ± 5% (63.93 lb ± 5%) |
| Module Front Glass  | 3.2 mm (0.126 inch)<br>High transparency, low iron, AR Coated tempered Glass                    |
| Module Frame        | Frame 35 mm (1.38 inch)<br>Ultra-strong anodized aluminum alloy frame                           |
| Module Junction Box | IP68 rated I 3 bypass diodes                                                                    |
| Module Output Cable | 4mm <sup>2</sup> 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 |

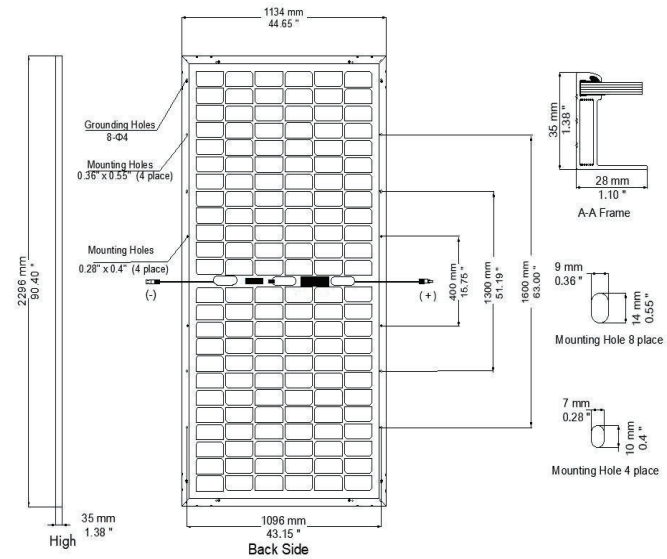
## MAXIMUM RATING

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

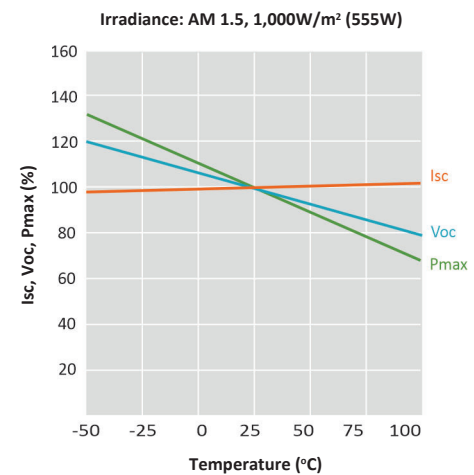
## BIFACIAL OUTPUT-BACKSIDE POWER

|                   |        |        |        |        |        |        |
|-------------------|--------|--------|--------|--------|--------|--------|
| 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

