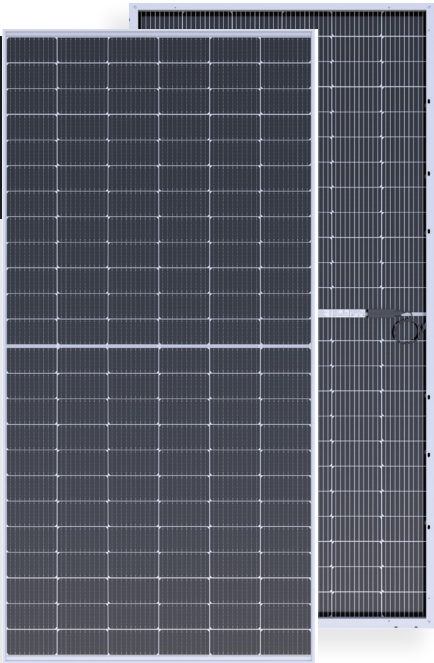


VEGA SERIES™

BIFACIAL | DOUBLE GLASS | PV MODULE

PERC Cell Technology | P-Type



Power Range: 530W | 535W | 540W | 545W | 550W | 555W
Technology: PERC | Half cut cell | 10 Busbar | 144 cells
Design: Double Glass | Silver Frame | Glass Back

Module Efficiency: 21.3%
Cell Efficiency: 22.5%~23.4%
Power Tolerance: 0~+5W
System Voltage: 1000/1500 V DC

Module Size: 90.40 x 44.65 x 1.38 inch
Module Weight: 73.86 lb.
Module Code: BVM7612M-XXX-H-HC-BF-DG

DESIGNED TO PERFORM AND BUILT TO LAST

Our PV modules are designed with better technology in mind, made from robust product components, under stringent quality control steps and high-tech manufacturing processes.

PERC, half-cut, multi-busbar, and large cell designs enables our PV modules to pack more power per module, capture more

photons, produce more energy, and provide reliable, dependable system performance under different installations requirements, difficult weather, or environmental conditions. Whether you are EPC, installer, contractor, or project developer, we have the right and better PV module for your residential, commercial, industrial, and utility scale solar projects.

Monocrystalline technology

P-Type semiconductor

Passivated emitter and rear cell technology

Half cut cell

Multi-Busbar cell

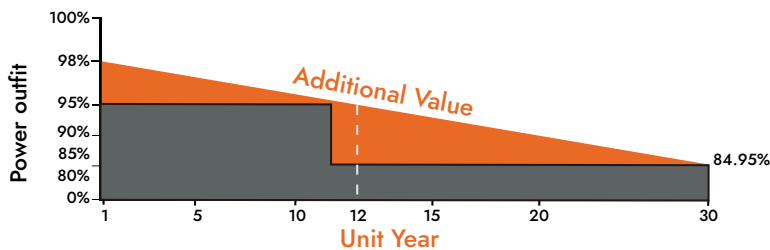
Large wafer design

Beautiful aesthetic

Robust product component

WARRANTY

30 Years - Linear power performance warranty
 12 Years - Enhanced product warranty



Output Linear Warranty
 Standard Warranty

1 (12) years product warranty
 2 Out linear warranty with 2% degradation in the 1st year and less than 0.45% degradation each year from 2nd year to 30th year

CERTIFICATES

UL 61730 | IEC 61215 | IEC 61730 | CEC Listed | CE
 ISO 9001 Quality Management System
 ISO 14001 Environmental Management System
 ISO 45001 Occupational Health and Safety Management System

*Please contact with Boviet Solar representatives for full list of certificates according to local requirements and product type

ELECTRICAL CHARACTERISTICS | STC

| Maximum Power (Pmax) | 530W | 535W | 540W | 545W | 550W | 555W |
|-----------------------------|--------|--------|--------|--------|--------|--------|
| Maximum Power Current (Imp) | 12.66A | 12.71A | 12.76A | 12.82A | 12.88A | 12.95A |
| Maximum Power Voltage (Vmp) | 41.94V | 42.17V | 42.40V | 42.58V | 42.76V | 42.93V |
| Short Circuit Current (Isc) | 13.43A | 13.48A | 13.55A | 13.72A | 13.84A | 14.08A |
| Open Circuit Voltage (Voc) | 49.71V | 49.80V | 49.89V | 49.98V | 50.13V | 50.20V |
| Module Efficiency | 20.4% | 20.5% | 20.7% | 20.9% | 21.1% | 21.3% |
| Power Tolerance | 0~+5W | 0~+5W | 0~+5W | 0~+5W | 0~+5W | 0~+5W |

STC: AM1.5 Irradiance 1000W/m², 25° C

ELECTRICAL CHARACTERISTICS | NOCT

| Maximum Power (Pmax) | 530W | 535W | 540W | 545W | 550W | 555W |
|-----------------------------|---------|---------|---------|---------|---------|---------|
| Maximum Power (Pmax) | 401.48W | 405.27W | 409.09W | 412.75W | 416.44W | 420.37W |
| Maximum Power Current (Imp) | 10.27A | 10.31A | 10.35A | 10.40A | 10.45A | 10.50A |
| Maximum Power Voltage (Vmp) | 39.10V | 39.31V | 39.53V | 39.69V | 39.86V | 40.02V |
| Short Circuit Current (Isc) | 10.79A | 10.83A | 10.89A | 11.03A | 11.12A | 11.32A |
| Open Circuit Voltage (Voc) | 46.57V | 46.66V | 46.74V | 46.83V | 46.97V | 47.03V |

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 90.40 x 44.65 x 1.38 inch. I Weight: 73.86 lb. |
| Module Front Glass | 2.0 mm (0.079 inch) High transparency, low iron, AR Coated semi-tempered Glass |
| Module Frame | Frame 35 mm Ultra-strong anodized aluminum alloy frame |
| Module Junction Box | IP68 rated I 3 bypass diodes |
| Module Output Cable | 4mm ² (EU) I 12 AWG (US) 39.38 inch |
| Module Connector | JM608 |
| Module Encapsulant | POE |
| Module Back Glass | 2.0mm thickness, transparent with a grid. High transmitted, low iron, and strength semi-tempered glass |
| 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: | 2399.73 lb (1088.5 kg) |
| Pallet Dimension: | 91.37 x 44.69 x 49.49 inch (2320 x 1135 x 1257 mm) |

MAXIMUM RATING

| | |
|----------------------------|---------------|
| Operating Temperature | -40°F~185°F |
| Maximum Series Fuse Rating | 30A |
| Maximum System Voltage | 1000/1500V DC |

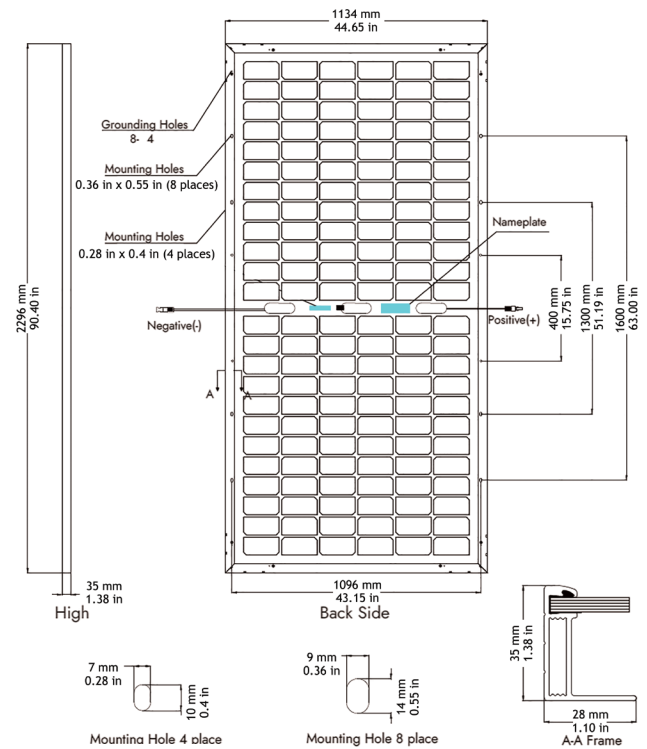
THERMAL CHARACTERISTICS

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

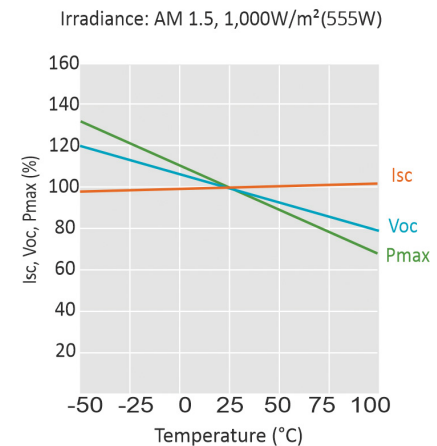
BIFACIAL OUTPUT-BACKSIDE POWER GAIN

| | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|
| 10% Pmax(W) | 583 | 589 | 594 | 600 | 605 | 611 |
| Module efficiency (%) | 22.39 | 22.62 | 22.81 | 23.03 | 23.24 | 23.47 |
| 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: IV Curve



PV Module: IV Curve

