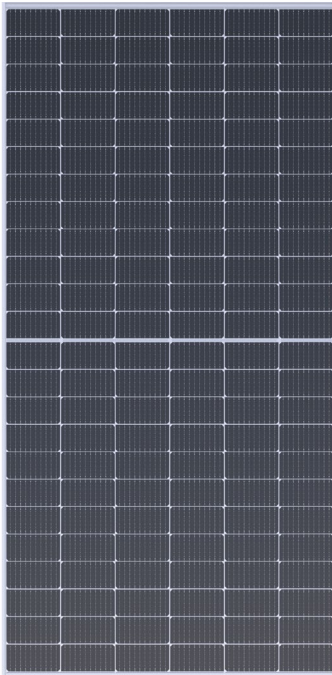


GAMMA SERIES™

UTILITY SCALE SOLAR MONO | MONOFACIAL | PERC | PV MODULE



Power Range: 530W | 535W | 540W | 545W | 550W
Technology: PERC | Half cut cell | 10 Busbar | 144 Cells
Design: Single Glass | Silver Frame | White Backsheet

Module Efficiency: 21.2%
Cell Efficiency: 22.5%~23.3%
Power Tolerance: 0~+5W
System Voltage: 1000/1500 V DC

Module Size: 90.08 x 44.65 x 1.38 inch
Module Weight: 63.72 lb.
Module Code: BVM7612M-XXX-H-HC

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

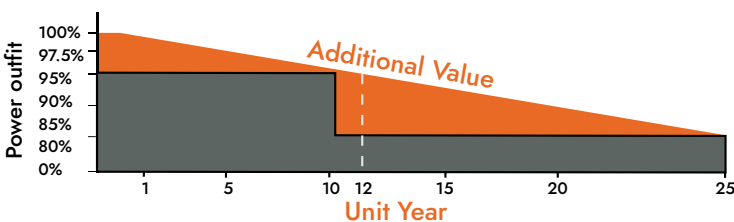
Large wafer design

Beautiful aesthetic

Robust product component

WARRANTY

25- Year linear power warranty
 12 -Year product warranty



Output Linear Warranty

1 (12) years product warranty

Standard Warranty

2 Out linear warranty with 2.5% degradation in the 1st year and less than 0.6% degradation each year from 2nd year to 25th 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 representative for Full list of certificates according to local requirements and PV module product type.

ELECTRICAL CHARACTERISTICS | STC

| Maximum Power (Pmax) | 530W | 535W | 540W | 545W | 550W |
|-----------------------------|--------|--------|--------|--------|--------|
| Maximum Power Current (Imp) | 12.66A | 12.71A | 12.76A | 12.82A | 12.88A |
| Maximum Power Voltage (Vmp) | 41.94V | 42.17V | 42.40V | 42.58V | 42.76V |
| Short Circuit Current (Isc) | 13.43A | 13.48A | 13.55A | 13.72A | 13.84A |
| Open Circuit Voltage (Voc) | 49.71V | 49.80V | 49.89V | 49.98V | 50.13V |
| Module Efficiency | 20.4% | 20.6% | 20.8% | 21.0% | 21.2% |
| Power Tolerance | 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 |
|-----------------------------|--------|--------|--------|--------|--------|
| Maximum Power (Pmax) | 417W | 421W | 425W | 429W | 433W |
| Maximum Power Current (Imp) | 10.16A | 10.24A | 10.32A | 10.40A | 10.48A |
| Maximum Power Voltage (Vmp) | 41.1V | 41.15V | 41.20V | 41.25V | 41.32V |
| Short Circuit Current (Isc) | 10.71A | 10.74A | 10.81A | 10.86A | 10.92A |
| Open Circuit Voltage (Voc) | 49.0V | 49.23V | 49.45V | 49.68V | 49.87V |

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

MECHANICAL CHARACTERISTICS

| | |
|---------------------|--|
| Solar Cell | Monocrystalline PERC PV Cells 182mm Cell Half-cut I10 Busbar 144 (6x24) pcs in series |
| Solar Modules | Monofacial 90.08 x 44.65 x 1.38 inch. Weight: 63.72 lb. |
| Module Glass | 3.2 mm (0.13 inch) High transparency, low iron, AR-coated tempered glass |
| Module Frame | Frame 35 mm Ultra-strong anodized aluminum alloy frame |
| Module Junction Box | IP68 rated 3 bypass diodes |
| Module Output Cable | 4mm ² (EU) 12 AWG (US) 39.38 inch |
| Module Connector | Multi contact (MC4) compatible connectors |
| Module Encapsulant | EVA (ethyl vinyl acetate) |
| Module Backsheet | FFC backsheet |
| Module Fire Type | Type 1 Fire rated |

PACKING INFORMATION

| | |
|-------------------------------|----------------------------|
| Pieces per pallet: | 31 |
| Pallets per container (40HQ): | 20 |
| Pieces per container (40HQ): | 620 |
| Pallet Weight: | 2085.35 lb |
| Pallet Dimension: | 91.07 x 44.69 x 49.49 inch |

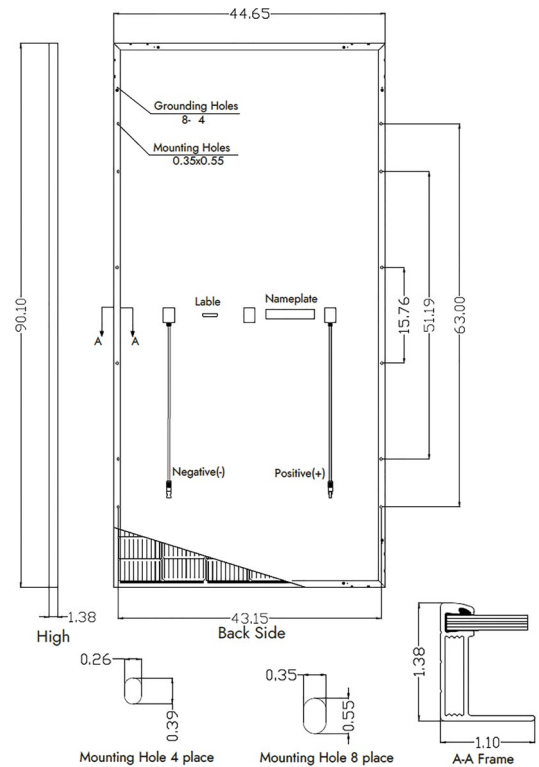
MAXIMUM RATING

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

THERMAL CHARACTERISTICS

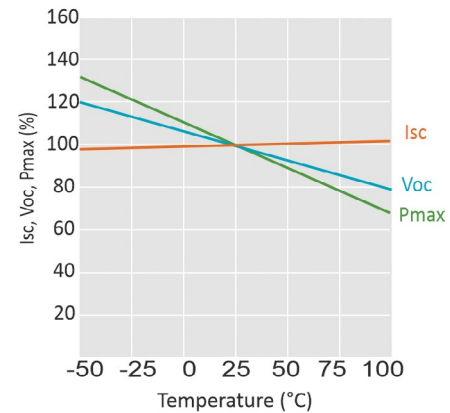
| | |
|------------------------------|------------|
| Pmax Temperature Coefficient | -0.35%/K |
| Voc Temperature Coefficient | -0.28%/K |
| Isc Temperature Coefficient | +0.049%/K |
| NOCT | 113±35.6°F |

PV Module: Mechanical Drawing



PV Module: IV Curve

Irradiance: AM 1.5, 1,000W/m²(550W)



PV Module: IV Curve

I-V Curves at Different Irradiances (550W)
Test Temperature: 25°C

