

GAMMA SERIES™

UTILITY SCALE SOLAR MONO | MONOFACIAL | PERC | PV MODULE

Power Range: 405W I 410W I 415W I 420W I 425W

Technology: PERC I Half cut cell I 10 Busbar I 108 Cells

Design: Single Glass I Silver Frame I White Backsheet

Module Efficiency: 21.7%

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

Module Size: 1724 x 1134 x 30 mm

Module Weight: 21.0 kg

Module Code: BVM7609M-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



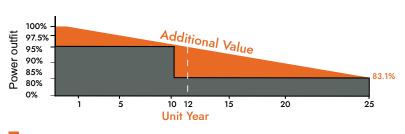
Beautiful aesthetic



Robust product component

WARRANTY

25- Year linear power warranty12 -Year product warranty



Output Linear Warranty

Standard Warranty

1 (12) years product 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

IEC 61215 I IEC 61730 I 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 I STC

Maximum Power (Pmax)	405W	410W	415W	420W	425W
Maximum Power Current (Imp)	12.95A	13.05A	13.14A	13.24A	13.33A
Maximum Power Voltage (Vmp)	31.31V	31.44V	31.60V	31.74V	31.91V
Short Circuit Current (Isc)	13.91A	13.98A	14.06A	14.14A	14.22A
Open Circuit Voltage (Voc)	37.19V	37.33V	37.48V	37.63V	37.79V
Module Efficiency	20.7%	21.0%	21.2%	21.5%	21.7%
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W

STC: AM1.5 Irradiance 1000W/m, 25° C

ELECTRICAL CHARACTERISTICS INOCT

Maximum Power (Pmax)	405W	410W	415W	420W	425W
Maximum Power (Pmax)	301W	305W	309W	312W	316W
Maximum Power Current (Imp)	10.14A	10.23A	10.32A	10.37A	10.45A
Maximum Power Voltage (Vmp)	29.68V	29.80V	29.95V	30.08V	30.24V
Short Circuit Current (Isc)	11.23A	11.28A	11.35A	11.41A	11.48A
Open Circuit Voltage (Voc)	35.25V	35.38V	35.52V	35.67V	35.82V

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

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline I PERC PV Cells 182mm Cell I Half-cut I10 Busbar I 108 (6x18) pcs in series
Solar Modules	Monofacial I 1724 x 1134 x 30mm I Weight: 21.0kg
Module Glass	3.2 mm (0.13 inch) High transmission tempered glass
Module Frame	Frame 30 mm Anodized aluminum alloy
Module Junction Box	Ip68 rated I 3 bypass diodes
Module Output Cable	4mm²(IEC) Length:(+)1200mm, (-)1200mm
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

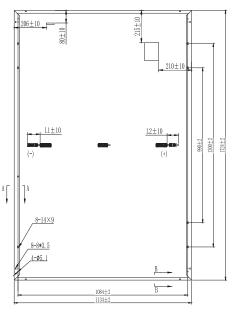
MAXIMUM RATING

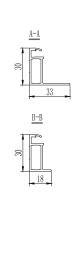
Operating Temperature	-40~+85°C
Maximum Series Fuse Rating	25A
Isc Temperature Coefficient	1500V DC

THERMAL CHARACTERISTICS

Pmax Temperature Coefficient	-0.39%/°C
Voc Temperature Coefficient	-0.29%/°C
Isc Temperature Coefficient	+0.049%/°C
NOCT	45±2°C

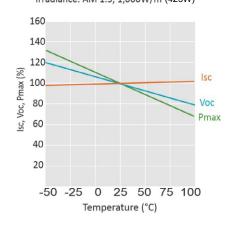
PV Module: Mechanical Drawing





PV Module: IV Curve

Irradiance: AM 1.5, 1,000W/m²(425W)



PV Module: IV Curve

