

VEGA SERIES™

UTILITY SCALE SOLAR MONO | BIFACIAL | PERC | PV MODULE

Power Range: 440W | 445W | 450W

PERC I Half cut cell I 9 Busbar I 144 Cells Technology: Double Glass I Silver Frame I Glass Back Design:

Module Efficiency: 20.2%

Cell Efficiency: 22.5%~23.3% 0~+5W **Power Tolerance:**

System Voltage: 1000/1500 V DC

84.06 x 41.19 x 1.38 inch Module Size:

Module Weight: 68.34 lb.

Module Code: BVM6612M-XXXS-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



Standard Warranty

2 Out linear warranty with 2.5% degradation in the 1st year and less than 0.5% 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 I STC

Maximum Power (Pmax)	440W	445W	450W
Maximum Power Current (Imp)	10.92A	10.99A	11.06A
Maximum Power Voltage (Vmp)	40.37V	40.57V	40.76V
Short Circuit Current (Isc)	11.48A	11.55A	11.60A
Open Circuit Voltage (Voc)	48.60V	48.80V	49.05V
Module Efficiency	19.7%	19.9%	20.2%
Power Tolerance	0~+5W	0~+5W	0~+5W

STC: AM1.5 Irradiance 1000W/m, 25° C

ELECTRICAL CHARACTERISTICS I NOCT

Maximum Power (Pmax)	440 W	445 W	450 W
Maximum Power (Pmax)	324W	342W	361W
Maximum Power Current (Imp)	8.46A	8.65A	8.84A
Maximum Power Voltage (Vmp)	38.29V	39.54V	40.8V
Short Circuit Current (Isc)	8.87A	9.08A	9.28A
Open Circuit Voltage (Voc)	47.8V	48.2V	48.6V

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

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline I PERC PV Cells 166mm Cell I Half-cut I 9 Busbar I 144 (6x24) pcs in series		
Solar Modules	Bifacial I 84.06 x 41.19 x 1.38 inch. I Weight: 68.34 lb.		
Module Glass	2.0mm (0.079inch) High transparency, low iron, AR-coated 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	4mm² (EU) I 12 AWG (US) 39.38 inch		
Module Connector	Multi contact (MC4) compatible connectors		
Module Encapsulant	POE		
Module Backsheet	2.0mm thickness, transparent with a grid. High transmitted, low iron, and strength tempered glass		
Module Fire Type	Type 29 Fire rated		

PACKING INFORMATION

Pieces per pallet:	30
Pallets per container (40HQ):	22
Pieces per container (40HQ):	660
Pallet Weight:	2127.5 lb
Pallet Dimension:	85.23 x 43.31 x 45.88 inch

MAXIMUM RATING

Operating Temperature	-40°F~185°F
Maximum Series Fuse Rating	20A
Isc Temperature Coefficient	1000/1500V DC

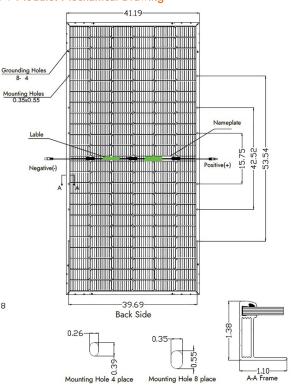
THERMAL CHARACTERISTICS

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

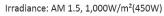
BIFACIAL OUTPUT-BACKSIDE POWER GAIN

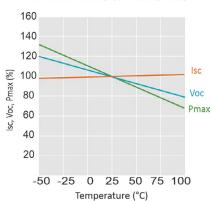
10%	Pmax(W)	484	490	495	
	Module efficiency (%)	21.67	21.92	22.17	
20%	Pmax(W)	528	534	540	
	Module efficiency (%)	23.64	23.91	24.18	

PV Module: Mechanical Drawing



PV Module: IV Curve





PV Module: IV Curve

