

VEGA SERIES™

UTILITY SCALE SOLAR MONO | BIFACIAL | PERC | PV MODULE

Power Range: Technology: Design:	440W 445W 450W PERC Half cut cell 9 Busbar 144 Cells Double Glass Silver Frame Glass Back		
Module Efficiency:	20.2%		
Cell Efficiency:	22.5%~23.3%		
Power Tolerance:	0~+5W		
System Voltage:	1000/1500 V DC		
Module Size:	84.06 x 41.19 x 1.38 inch		
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



Multi-Busbar



Large wafer design



P-Type

semiconductor

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

Passivated emitter and PERC rear cell technology

Beautiful

aesthetic



Half cut cell



Robust product component

CERTIFICATES

UL 61730 | IEC 61215 | IEC 61730 | CE Listed | MCS

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
U.S. C.	
Pallet Dimension:	85.23 x 43.31 x 45.88 inch

MAXIMUM RATING

Operating Temperature	-40°F~185°F	Pmax Temperature Coefficient	-0.35%/K
Maximum Series Fuse Rating	20A	Voc Temperature Coefficient	-0.285%/K
lsc Temperature Coefficient	1000/1500V DC	lsc Temperature Coefficient	+0.05%/K

NOCT

THERMAL CHARACTERISTICS

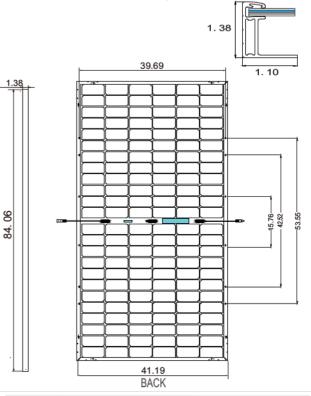
113±35.6°F

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

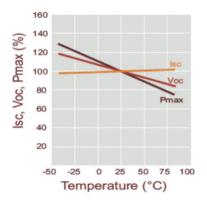
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PV Module: Mechanical Drawing

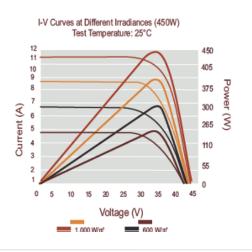


PV Module: IV Curve

Irradiance: AM 1.5, 1,000W/m³(450W)



PV Module: IV Curve



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