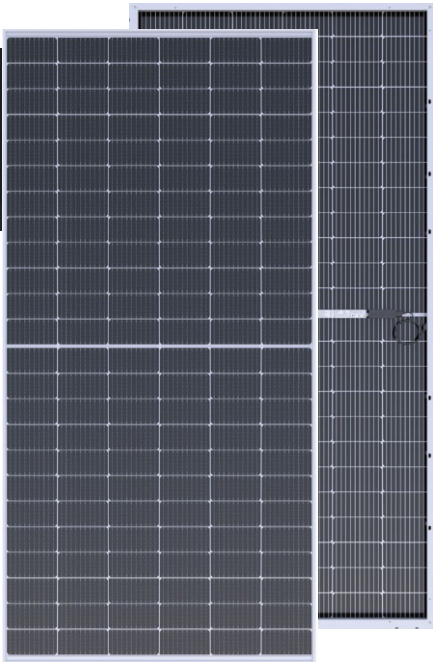


VEGA SERIES™

BIFACIAL | DOUBLE GLASS | PV MODULE

TOPCON Cell Technology | N-Type



Power Range: 560W | 565W | 570W | 575W | 580W
Technology: TOPCon | Half-cut Cell | 16BB | 144 Cells
Design: Double Glass | Silver Frame

Module Efficiency: 22.45%
Power Tolerance: 0~+5W
System Voltage: 1500 V DC

Module Size: 2278 x 1134 x 35mm (89.69 x 44.65 x 1.38in)
Module Weight: 32.0kg ± 5% (70.55lb ± 5%)
Module Code: BVM7612M-XXX-H-HC-BF-DG

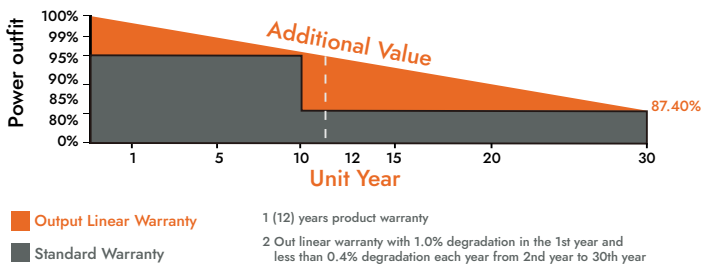
DESIGNED TO PERFORM AND BUILT TO LAST

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. Boviet Solar's PV modules 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.

WARRANTY

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



CERTIFICATES

UL 61730 | IEC 61215 | IEC 61730

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

PRODUCT FEATURES

- Bifacial Nature
- Mono-Crystalline wafer
- TOPCon cell technology
- N-Type doped with Phosphorus
- Double Glass, silver frame, glass back
- 144 Half-Cut cell design
- 182 Large wafer design
- 16 multi-busbars
- Split junction box design
- Split PV module design
- Robust product components
- Fire Rated: Type 29
- Plus, Sorting: from 0 up to +5 Wp
- Maximum system voltage: 1500 V (IEC/UL) or 1000 V (IEC/UL)

PRODUCT BENEFITS

- Optimized temperature coefficient
- Lower operating temperature
- Optimized degradation
- Outstanding low light performance
- Exceptional PID resistance
- High-power generation
- High efficiency
- Enhance reliability.
- Lower LID/LETID
- Higher compatibility
- Snow load: 5400 Pa
- Wind Load: 2400 Pa

ELECTRICAL CHARACTERISTICS | STC

Maximum Power (Pmax)	560W	565W	570W	575W	580W
Maximum Power Current (Imp)	12.77A	12.84A	12.91A	12.97A	13.04A
Maximum Power Voltage (Vmp)	43.88V	44.03V	44.18V	44.34V	44.50V
Short Circuit Current (Isc)	13.63A	13.70A	13.77A	13.84A	13.91A
Open Circuit Voltage (Voc)	51.66V	51.85V	52.04V	52.23V	52.42V
Module Efficiency	21.68%	21.78%	22.07%	22.26%	22.45%
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)	560W	565W	570W	575W	580W
Maximum Power (Pmax)	423.46W	427.25W	431.03W	434.81W	438.59W
Maximum Power Current (Imp)	10.36A	10.41A	10.47A	10.52A	10.58A
Maximum Power Voltage (Vmp)	40.90V	41.04V	41.18V	41.33V	41.48V
Short Circuit Current (Isc)	10.95A	11.01A	11.07A	11.12A	11.18A
Open Circuit Voltage (Voc)	48.40V	48.58V	48.76V	48.94V	49.11V

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

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline I TOPCON PV Cells 182mm Cell I Half-cut I 16 Busbar I 144 (6 x 24) pcs in series
Solar Modules	Bifacial I 2278 x 1134 x 35mm (89.69 x 44.65 x 1.38in) Weight: 32.0 kg ± 5% (70.55 lb ± 5%)
Module Front Glass	2.0mm (0.079 in) High transparency, low iron, AR Coated tempered Glass
Module Frame	Frame 35mm Anodized aluminum alloy frame
Module Junction Box	IP68 rated I 3 bypass diodes
Module Output Cable	4mm ² I Length:(+)1000mm,(-)1000mm
Module Connector	JM608
Module Encapsulant	POE/EVA
Module Back Glass	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:	31 pcs
Pallets per container (40HQ):	20 pallets
Pieces per container (40HQ):	620 pcs
Pallet Weight:	2297.22 lb
Pallet Dimension:	90.75 x 44.69 x 49.49in (2305 x 1135 x 1257mm)

THERMAL CHARACTERISTICS

Pmax Temperature Coefficient	-0.30%/K
Voc Temperature Coefficient	-0.25%/K
Isc Temperature Coefficient	+0.046%/K
NOCT	113±35.6°F

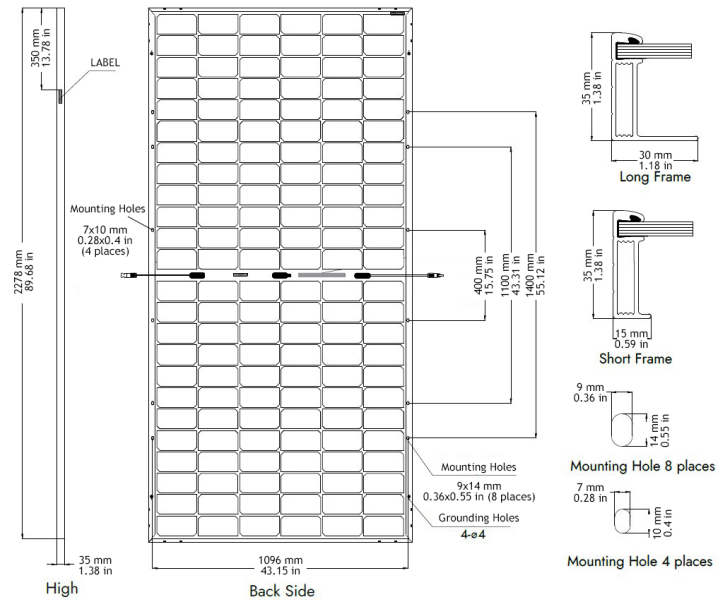
MAXIMUM RATING

Operating Temperature	-40°F~185°F
Maximum Series Fuse Rating	30A
Maximum System Voltage	1500V DC
Bifacial Ratio	80±5%

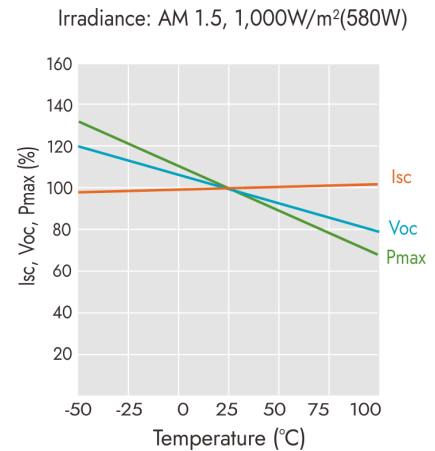
BIFACIAL OUTPUT-BACKSIDE POWER GAIN

10%	Pmax(W)	616	621.5	627	632.5	638
	Module efficiency (%)	23.85	24.06	24.27	24.48	24.70
20%	Pmax(W)	672	678	684	690	696
	Module efficiency (%)	26.01	26.25	26.48	26.71	26.94

PV Module: Mechanical Drawing



PV Module: IV Curve



PV Module: IV Curve

