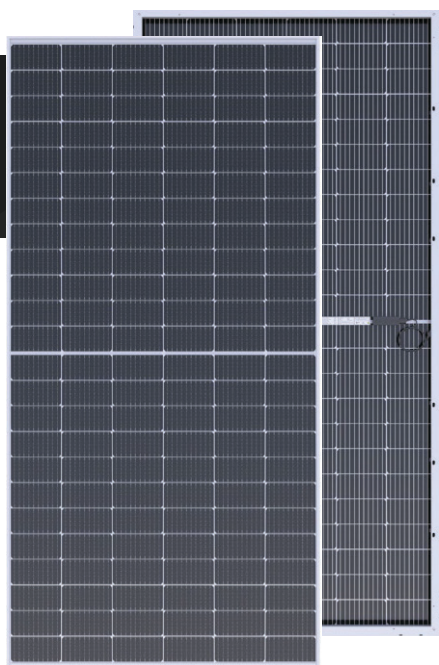


VEGA SERIES™

BIFACIAL | DOUBLE GLASS | PV MODULE

TOPCON Cell Technology | N-Type



Power Range: 560W | 565W | 570W | 575W | 580W
Technology: Mono | Bifacial | Double Glass PV Module
Design: Double Glass

Module Efficiency: 22.45%
Cell Efficiency: 24.0%~24.5%
Power Tolerance: 0~+5W
System Voltage: 1500 V DC

Module Size: 2278 x 1134 x 35 mm
Module Weight: 32.0 kg ±3% (70.55lb±3%)
Module Code: BVM7612M-XXX-H-HC-BF-DG

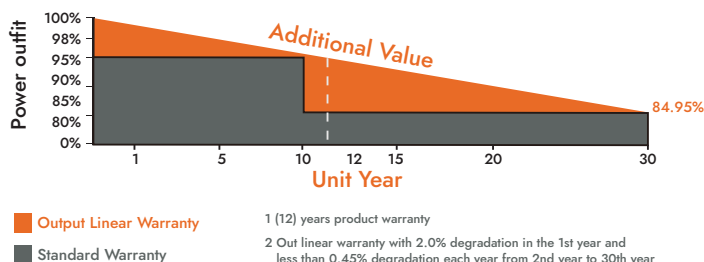
DESIGNED TO PERFORM AND BUILT TO LAST

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 | CE 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

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)	13.35A	13.42A	13.48A	13.55A	13.61A
Maximum Power Voltage (Vmp)	41.95V	42.12V	42.29V	42.46V	42.63V
Short Circuit Current (Isc)	14.26A	14.32A	14.38A	14.44A	14.50A
Open Circuit Voltage (Voc)	49.69V	49.86V	50.03V	50.20V	50.37V
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	427.40W	431.05W	435.03W	438.70W
Maximum Power Current (Imp)	10.83A	10.89A	10.93A	10.99A	11.04A
Maximum Power Voltage (Vmp)	39.11V	39.26V	39.42V	39.58V	39.74V
Short Circuit Current (Isc)	11.46A	11.51A	11.56A	11.60A	11.65A
Open Circuit Voltage (Voc)	46.56V	46.72V	46.87V	47.03V	47.19V

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 (6x24) pcs in series
Solar Modules	Bifacial I 2278 x 1134 x 35 mm I Weight: 32.0 kg±3%
Module Glass	2.0 mm (0.079 inch) High transparency, low iron, AR Coated tempered Glass
Module Frame	Frame 35 mm Anodized aluminum alloy frame
Module Junction Box	IP68 rated I 3 bypass diodes
Module Output Cable	4mm ² I Length:(+)1000mm,(-)1000mm
Module Connector	MC4 / JM608 *Please confirm the connector type with Boviet Solar before order processing.
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:	31
Pallets per container (40HQ):	20
Pieces per container (40HQ):	620
Pallet Weight:	2297.22 lb
Pallet Dimension:	91.37 x 44.69 x 49.49 inch

THERMAL CHARACTERISTICS

Pmax Temperature Coefficient	-0.37%/K
Voc Temperature Coefficient	-0.30%/K
Isc Temperature Coefficient	+0.06%/K
NOCT	113±35.6°F

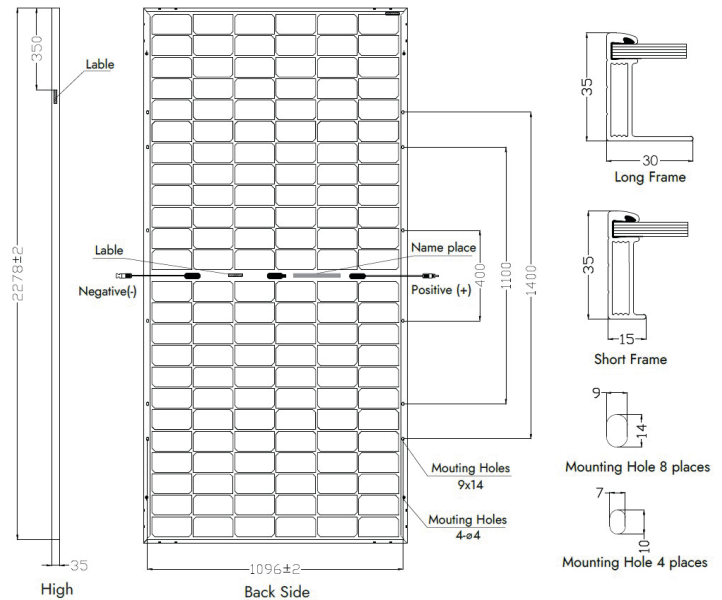
MAXIMUM RATING

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

BIFACIAL OUTPUT-BACKSIDE POWER GAIN

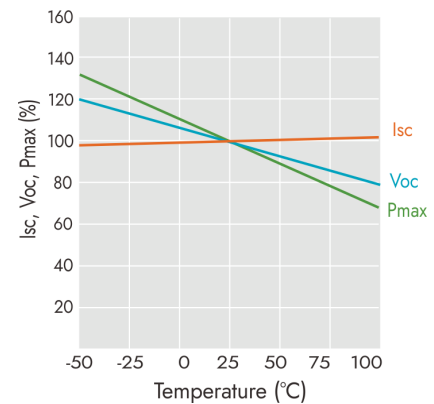
10%	Pmax(W)	616	621.5	627	632.5	638
	Module efficiency (%)	23.85	24.06	24.27	24.48	24.70
20%	Pmax(W)	672	678	684	690	696
	Module efficiency (%)	26.01	26.25	26.48	26.71	26.94

PV Module: Mechanical Drawing



PV Module: IV Curve

Irradiance: AM 1.5, 1,000W/m²(580W)



PV Module: IV Curve

I-V Curves at Different Irradiances (580W)
Test Temperature: 25°C

