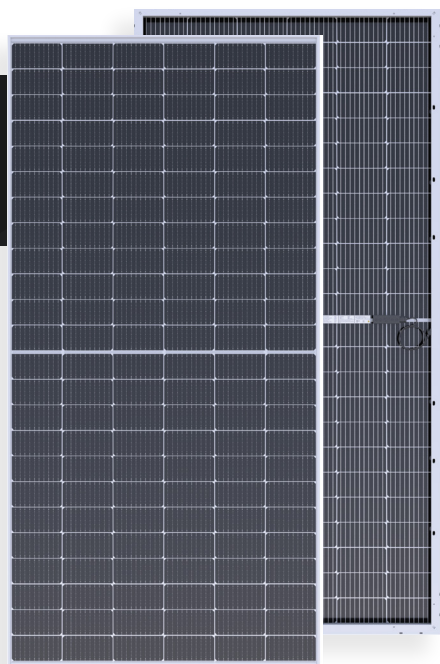


VEGA SERIES™

UTILITY SCALE SOLAR

MONO | BIFACIAL | PERC | PV MODULE



Power Range:	525W 530W 535W 540W 545W 550W
Technology:	PERC Half cut cell 10 Busbar 144 cells
Design:	Double Glass Silver Frame Glass Back
Module Efficiency:	21.1%
Cell Efficiency:	22.5%~23.3%
Power Tolerance:	0~+5W
System Voltage:	1000/1500 V DC
Module Size:	90.40 x 44.65 x 1.38 inch
Module Weight:	73.86 lb.
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.

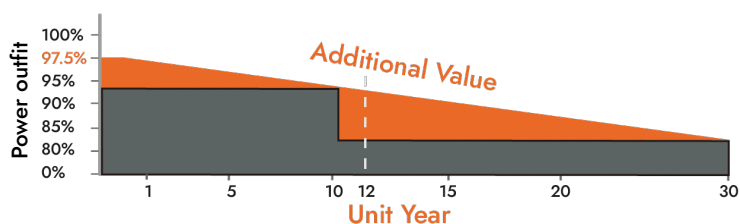
PERC, half-cut, multi-busbar, and large cell designs enables our PV modules to pack more power per module, capture more

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



 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 0.5% 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 | STC

Maximum Power (Pmax)	525W	530W	535W	540W	545W	550W
Maximum Power Current (Imp)	12.60A	12.66A	12.71A	12.76A	12.82A	12.88A
Maximum Power Voltage (Vmp)	41.47V	41.94V	42.17V	42.40V	42.58V	42.76V
Short Circuit Current (Isc)	13.37A	13.43A	13.48A	13.55A	13.72A	13.84A
Open Circuit Voltage (Voc)	49.52V	49.71V	49.80V	49.89V	49.98V	50.13V
Module Efficiency	20.2%	20.4%	20.5%	20.7%	20.9%	21.1%
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W

STC: AM1.5 Irradiance 1000W/m², 25° C

ELECTRICAL CHARACTERISTICS | NOCT

Maximum Power (Pmax)	525W	530W	535W	540W	545W	550W
Maximum Power (Pmax)	395.10W	401.48W	405.27W	409.09W	412.75W	416.44W
Maximum Power Current (Imp)	10.22A	10.27A	10.31A	10.35A	10.40A	10.45A
Maximum Power Voltage (Vmp)	38.66V	39.10V	39.31V	39.53V	39.69V	39.86V
Short Circuit Current (Isc)	10.74A	10.79A	10.83A	10.89A	11.03A	11.12A
Open Circuit Voltage (Voc)	46.40V	46.57V	46.66V	46.74V	46.83V	46.97V

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

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline I PERC PV Cells 182mm Cell I Half-cut I 10 Busbar I 144 (6x24) pcs in series
Solar Modules	Bifacial I 90.40 x 44.65 x 1.38 inch. I Weight: 73.86 lb.
Module Glass	2.0 mm (0.079 inch) 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	4mm ² (EU) I 12 AWG (US) 39.38 inch
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:	2399.73 lb
Pallet Dimension:	91.37 x 44.69 x 49.49 inch

MAXIMUM RATING

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

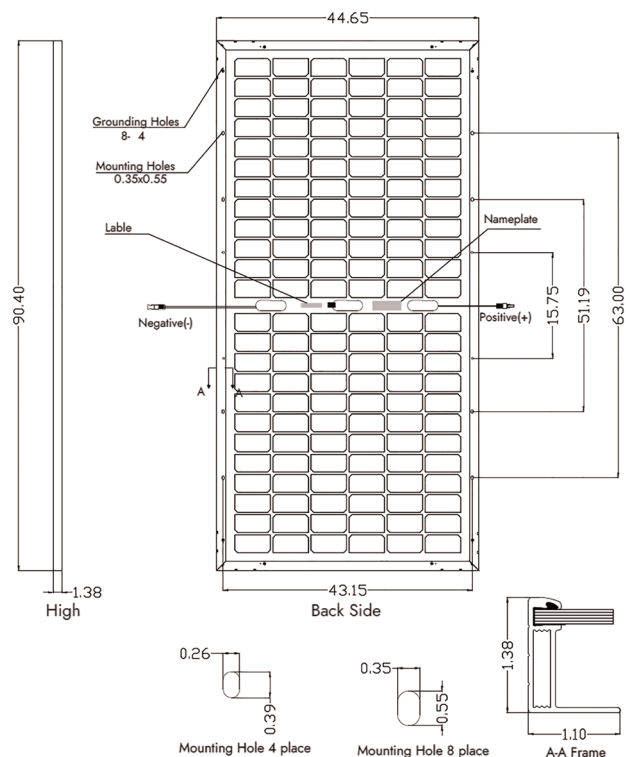
THERMAL CHARACTERISTICS

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

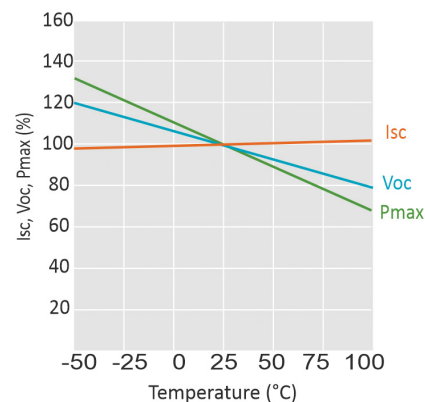
10% Pmax(W)	578	583	589	594	600	605
Module efficiency (%)	22.18	22.39	22.60	22.81	23.03	23.24
20% Pmax(W)	630	636	642	648	654	660
Module efficiency (%)	24.20	24.43	24.66	24.89	25.12	25.35

PV Module: Mechanical Drawing



PV Module: IV Curve

Irradiance: AM 1.5, 1,000W/m²(550W)



PV Module: IV Curve

I-V Curves at Different Irradiances (550W)
Test Temperature: 25°C

