



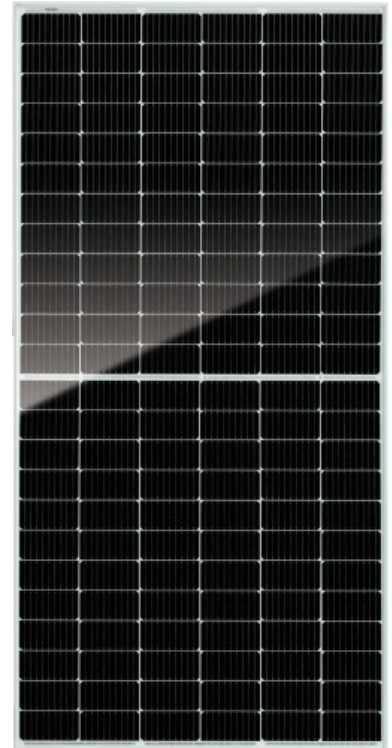
144 Cell Mono
430-450W(9BB)

BVM6612M(S)-HC

0~+5W
Power Tolerance

20.70%
Maximum Efficiency

430-450W
Power Output Range



2094 x 1038 x 40 mm

Silver Frame / White Backsheet



High Quality and Reliable Modules

- ◆ Withstand up to 5400 Pa snow load and 2400 Pa wind load
- ◆ 1000/1500V DC TUV certified
- ◆ 2 EL inspections per cell/module for defect-free consistency
- ◆ 0-+5 W guaranteed positive tolerance
- ◆ Rugged design for long-term durability; passed extended reliability tests



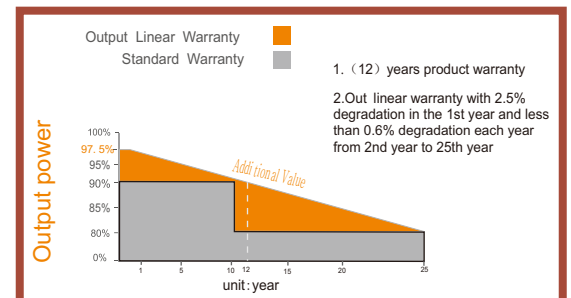
Warranty

- ◆ 12-year product warranty
- ◆ 25-year linear power output warranty



Comprehensive Certificates for Products and Management

- ◆ IEC 61215, IEC 61730, and CE
- ◆ ISO 9001 for Quality Management Systems
- ◆ ISO 14001 for Environmental Management Systems
- ◆ OHSAS 18001 Occupational Health and Safety System



Boviet Solar www.boviet.com

B5, B6, Song Khe Industrial Zone, Noi Hoang District Bac Giang Province, 21000 Vietnam

Electrical Characteristics STC

	BVM6612M-430S-HC	BVM6612M-435S-HC	BVM6612M-440S-HC	BVM6612M-445S-HC	BVM6612M-450S-HC
Maximum Power (Pmax)	430W	435W	440W	445W	450W
Maximum Power Current (Imp)	10.55A	10.62A	10.69A	10.76A	10.83A
Maximum Power Voltage (Vmp)	40.76V	40.97V	41.16V	41.36V	41.56V
Short Circuit Current (Isc)	11.02A	11.09A	11.16A	11.23A	11.30A
Open Circuit Voltage (Voc)	49.07V	49.27V	49.47V	49.67V	49.87V
Module Efficiency	19.78%	20.01%	20.24%	20.47%	20.70%
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W

STC: AM1.5, Irradiance 1000W/m², 25°C

Electrical Characteristics NOCT

	BVM6612M-430S-HC	BVM6612M-435S-HC	BVM6612M-440S-HC	BVM6612M-445S-HC	BVM6612M-450S-HC
Maximum Power (Pmax)	320W	323W	327W	330W	334W
Maximum Power Current (Imp)	8.46A	8.50A	8.56A	8.60A	8.66A
Maximum Power Voltage (Vmp)	37.83V	38.00V	38.21V	38.38V	38.57V
Short Circuit Current (Isc)	8.94A	8.99A	9.05A	9.10A	9.16A
Open Circuit Voltage (Voc)	46.12V	46.35V	46.49V	46.70V	46.89V

NOCT: AM1.5, Irradiance 800W/m², 20°C, Wind speed 1m/s

Mechanical Characteristics

Thermal Characteristics

Solar Cell	Monocrystalline 166x83 mm, 144 pcs in series	Pmax Temperature Coefficient	-0.39%/°C
Glass	High transparency, low iron, tempered glass 3.2 mm	Voc Temperature Coefficient	-0.295%/°C
Frame	Anodized aluminum alloy	Isc Temperature Coefficient	+0.039%/°C
Junction Box	IP68 rated, with 3 bypass diode	NOCT	45±2°C
Output Cable	4mm ² (EU), 1200 mm long		
Connector	MC4 Compatible		
Dimension	2094x1038x40 mm		
Weight	23 KG		

Packing Information

Operating Temperature	-40~85°C	Pieces per pallet	27
Maximum Series Fuse Rating	20 A	Pallets per container (40HQ)	22
Maximum System Voltage	Standard 1000V, 1500V on request	Pieces per container (40HQ)	594
		Pallet size	679Kg/ 2130*1140*1190 mm

Specifications in this datasheet are subject to change without prior notice.

I-V Curves

