



Advancing the Power of the Sun

144 Cell Mono  
440-450W  
BVM6612M(S)-HC-BF

0~+5W  
Power Tolerance

20.2%  
Maximum Efficiency

440-450W  
Power Output Range



41.19 x 84.06 Inches  
Silver Frame / Transparent Backsheet



High Quality and Reliable Modules

- ◆ Transparent backplane technology, more power generation
- ◆ Withstand up to 5400 Pa snow load and 2400 Pa wind load
- ◆ 2 EL inspections per cell/module for defect-free consistency
- ◆ Type 1 fire-rating per UL 61730
- ◆ High salt and ammonia resistance certified
- ◆ 0~+5 W guaranteed positive tolerance
- ◆ Rugged design for long-term durability; passed extended reliability tests



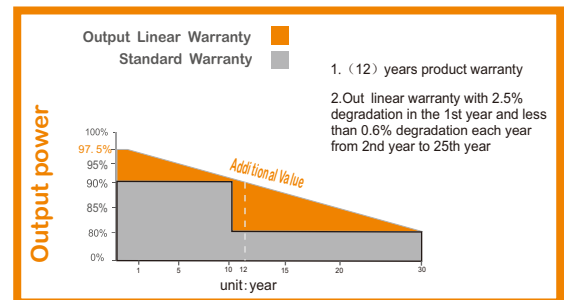
Warranty

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



Comprehensive Certificates for Products and Management

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



Listed in Bloomberg New Energy Finance's tier 1 list as of 1Q 2018



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## Electrical Characteristics STC

	BVM6612M-440S-H-HC-BF	BVM6612M-445S-H-HC-BF	BVM6612M-450S-H-HC-BF
Maximum Power (Pmax)	440W	445W	450W
Maximum Power Current (Imp)	10.92A	10.99A	11.06A
Maximum Power Voltage (Vmp)	40.30V	40.50V	40.69V
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 <sup>2</sup> , 25°C			

## Electrical Characteristics NOCT

	BVM6612M-440S-H-HC-BF	BVM6612M-445S-H-HC-BF	BVM6612M-450S-H-HC-BF
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: AM1.5, Irradiance 800W/m <sup>2</sup> , 20°C, Wind speed 1m/s			

## Mechanical Characteristics

## Thermal Characteristics

Solar Cell	Bifacial-Monocrystalline 6.54 x 3.27 inch, 144 (6 x 24) pcs. in series	Pmax Temperature Coefficient	-0.37%/K
Glass	High transparency, low iron, AR coated tempered glass 3.2 mm (0.13 inch)	Voc Temperature Coefficient	-0.30%/K
Frame	Anodized aluminum alloy	Isc Temperature Coefficient	+0.06%/K
Junction Box	IP67 rated, with 3 bypass diode	NOCT	113±3.6°F
Output Cable	4 mm <sup>2</sup> (EU)/12 AWG (US), 15.76 inch		
Connector	MC4 compatible		
Dimension	84.06x 41.19 x 1.38 inch		
Weight	58.43 lb		

## Maximum Ratings

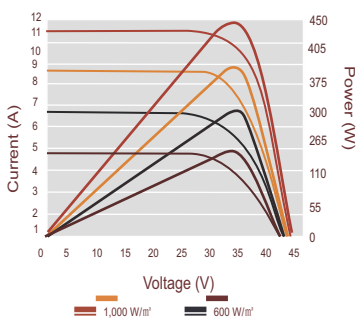
## Packing Information

Operating Temperature	-40°F~185°F	Pieces per pallet	30
Maximum Series Fuse Rating	20A	Pallets per container (40HQ)	22
Maximum System Voltage	1000/1500V DC	Pieces per container (40HQ)	660
		Pallet weight/size	2162 lb/ 85.23 x 46.85 x 45.08 inch

## Bifacial Output-Backside Power Gain

10%	Pmax (W)	484	489	495
	Module efficiency (%)	21.67	21.89	22.17
20%	Pmax (W)	528	534	540
	Module efficiency (%)	23.64	23.91	24.18

I-V Curves at Different Irradiances (450W)  
Test Temperature: 25°C



Irradiance: AM 1.5, 1,000W/m<sup>2</sup> (450W)

