

BIFACIAL TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC BM5-9B-G

435-455W



EXTRAORDINARY PRODUCT PERFORMANCE

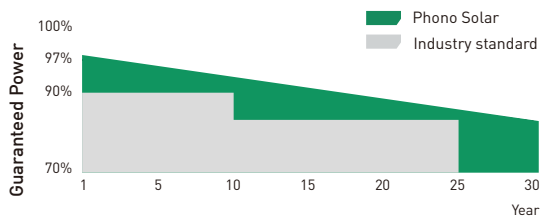
- ◆ Up to 25% additional power yield benefited from bifacial technology
- ◆ Lower power loss in cell connection and under shading conditions
- ◆ Competitive high-temperature performance with ameliorated temperature coefficient
- ◆ Higher power generation with multi-busbar and half-cut technology

HIGH QUALITY RELIABILITY

- ◆ Optimized electrical design lowers hot spot risk and operating current
- ◆ Corrosion resistance guarantees enhanced reliability in harsh environments
- ◆ Minimized Risk of microcrack and snail trail

EASY INSTALLATION

- ◆ Framed design improves mounting and racking method compatibility
- ◆ Safer and easier handling during transportation and installation



12-year Product Warranty | **30-year** Linear Performance Warranty

MANAGEMENT SYSTEM CERTIFICATES

IEC 61215, IEC 61730

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental management system

OHSAS 18001:2007 / International standards for occupational health & safety

IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules-guidelines for increased confidence in PV module design qualification and type approval



Bloomberg Tier1
NEW ENERGY FINANCE



ELECTRICAL TYPICAL VALUES

Model	PS435M5GF-24/TH		PS440M5GF-24/TH		PS445M5GF-24/TH		PS450M5GF-24/TH		PS455M5GF-24/TH	
	PS435M5GFH-24/TH	PS440M5GFH-24/TH	PS440M5GFH-24/TH	PS445M5GFH-24/TH	PS445M5GFH-24/TH	PS450M5GFH-24/TH	PS450M5GFH-24/TH	PS455M5GFH-24/TH	PS455M5GFH-24/TH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	435	320	440	323	445	327	450	331	455	344
Rated Current (Impp)	10.55	8.44	10.62	8.50	10.69	8.55	10.76	8.61	10.83	8.66
Rated Voltage (Vmpp)	41.24	37.91	41.44	38.00	41.63	38.25	41.83	38.44	42.02	38.57
Short Circuit Current (Isc)	11.02	8.88	11.08	8.93	11.14	8.98	11.20	9.03	11.26	9.08
Open Circuit Voltage (Voc)	49.59	45.87	49.79	46.06	49.99	46.24	50.20	46.44	50.40	46.62
Module Efficiency (%)	19.47		19.69		19.92		20.14		20.36	

STC(Standard Testing Conditions):Irradance 1000W/m², AM 1.5G, Cell Temperature 25m²

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/S

BIFACIAL ELECTRICAL VALUES

5%	Maximum Power (W)	450	455	460	465	470
	Module Efficiency (%)	20.14	20.36	20.59	20.81	21.04
15%	Maximum Power (W)	480	485	490	495	500
	Module Efficiency (%)	21.48	21.71	21.93	22.15	22.38
25%	Maximum Power (W)	510	515	520	525	530
	Module Efficiency (%)	22.83	23.05	23.27	23.50	23.72

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline 166 x 83mm
	Length: 2132mm (83.94 inch)
Dimension (L× W × H)	Width: 1048mm (41.26 inch) Height: 30mm (1.18 inch)
Weight	29.5kg (65.04 lbs)
Front Glass	2.0/2.0mm
Frame	Anodized Aluminium Alloy
Cable	4mm ² (IEC) , Length:350mm (vertical) 1250mm (horizontal) or Customized Length
Junction Box	IP 68 Rated

TEMPERATURE RATINGS

Voltage Temperature Coefficient	-0.31%/°C
Current Temperature Coefficient	+0.048%/°C
Power Temperature Coefficient	-0.38%/°C
Tolerance	0~+5w
NOCT	43±2°C

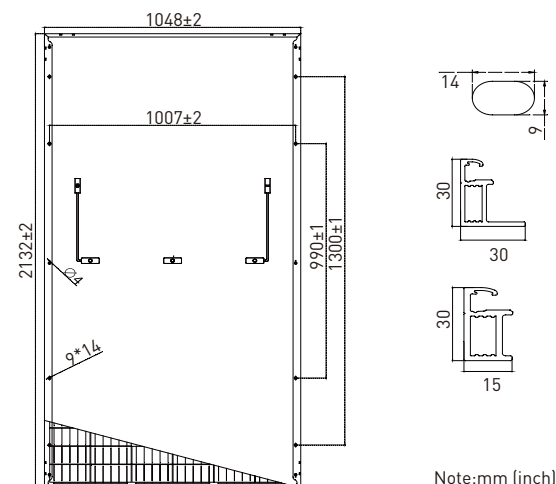
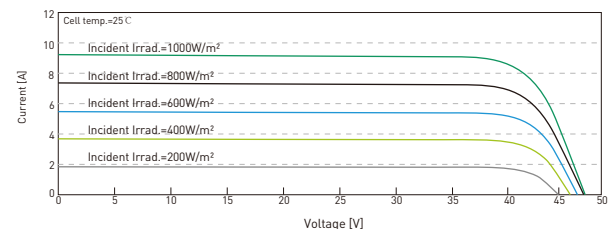
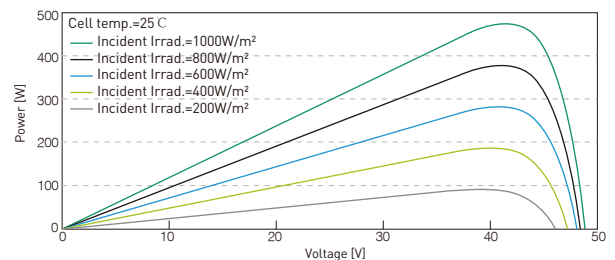
ABSOLUTE MAXIMUM RATING

Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	20A
IEC Application Class (IEC61730)	A
Maximum System Voltage	DC 1500V (IEC)

PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	150	660

ELECTRICAL CHARACTERISTICS



Note:mm (inch)