

BIFACIAL TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC BM4-9B-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

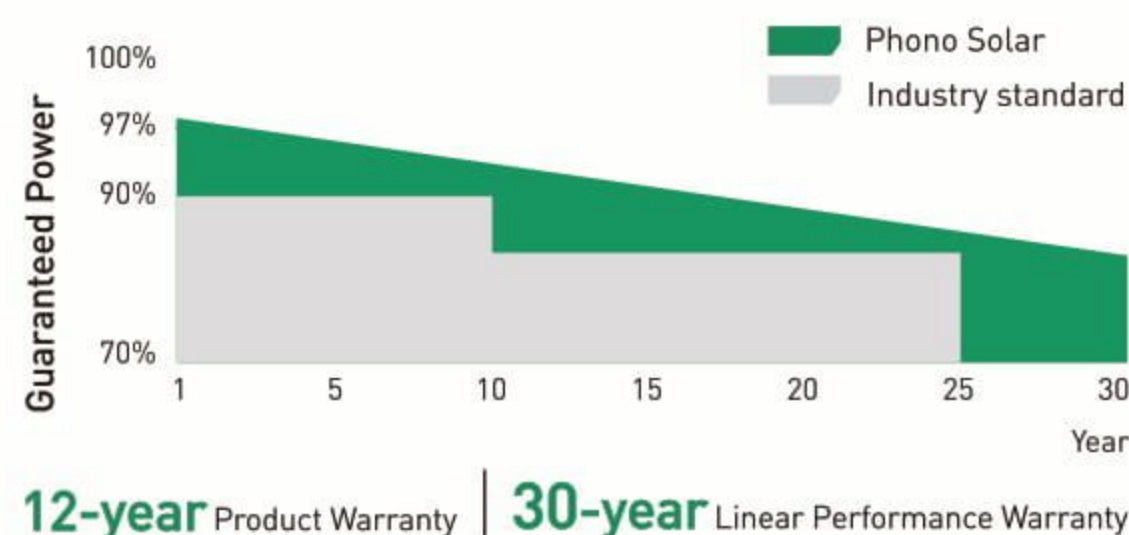
- ◆ Optimized electrical design lowers hot spot risk and operating current
- ◆ Corrosion resistance guarantees enhanced reliability in harsh environments
- ◆ Minimized Risk of microcrack and snail trail

EASY INSTALLATION

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

PID RESISTANT

- ◆ Encapsulation with POE and dual glass contributes to PID-free characteristic



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 PS435M5GFH-24/TH		PS440M5GF-24/TH PS440M5GFH-24/TH		PS445M5GF-24/TH PS445M5GFH-24/TH		PS450M5GF-24/TH PS450M5GFH-24/TH		PS455M5GF-24/TH PS455M5GFH-24/TH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (P _{mpp})	435	315	440	318	445	322	450	325	455	329
Rated Current (I _{mpp})	10.62	8.58	10.68	8.63	10.72	8.66	10.78	8.71	10.84	8.76
Rated Voltage (V _{mpp})	40.97	36.66	41.20	36.87	41.52	37.15	41.75	37.36	41.98	37.57
Short Circuit Current (I _{sc})	11.02	8.90	11.08	8.95	11.14	9.00	11.20	9.05	11.26	9.10
Open Circuit Voltage (V _{oc})	49.58	46.09	49.79	46.28	49.99	46.47	50.19	46.66	50.39	46.84
Module Efficiency (%)	19.47		19.69		19.92		20.14		20.36	

STC(Standard Testing Conditions):Irradance 1000W/m², AM 1.5G, Cell Temerature 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	461	466	471
	Module Efficiency (%)	20.15	20.38	20.61	20.85	21.08
15%	Maximum Power (W)	481	486	492	497	503
	Module Efficiency (%)	21.51	21.76	22.01	22.25	22.50
25%	Maximum Power (W)	511	517	523	529	535
	Module Efficiency (%)	22.88	23.14	23.40	23.66	23.93

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline 166 x 83mm
Dimension (L×W×H)	Length: 2132mm (83.94 inch)
	Width: 1048mm (41.26 inch)
	Height: 30mm (1.18 inch)
Weight	29.0kg (63.93 lbs)
Front Glass	2.0mm/2.0mm toughened glass
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	-0.30%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.38%/°C
Tolerance	0~+5w
NOCT	43±2 °C
Bifaciality	70±5%

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	25A
PV Module Classification	II
Maximum System Voltage	DC 1000V/1500V

PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	285	770

ELECTRICAL CHARACTERISTICS

