



# 365-385W Bifacial Twinplus Module Series

HIGH EFFICIENCY MONO-PERC BM4-9B-G



#### **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**

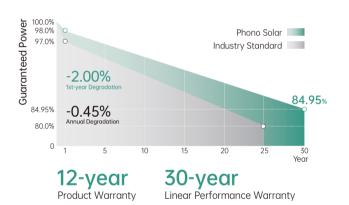
- Optimized electrical design lowers hot spot risk and operating current
- Corrosion resistance guarantees enhanced reliability in harsh environments
- Minimized Risk of microcrack and snail trail

#### **Easy Installation**

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

#### **PID Resistant**

• Encapsulation with Industry-leading cell processing technology and dual glass contributes to excellent anti-PID characteristic



### MANAGEMENT SYSTEM CERTIFICATES

#### IEC 61215, IEC 61730

ISO 9001 2015 / Quality management system ISO 14001

2015 / Standards for environmental management system

ISO 45001 2018 / International standards for occupational health & safety



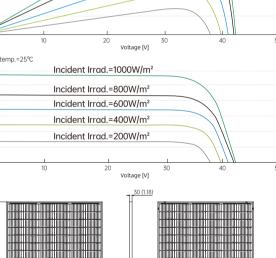
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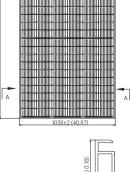
www.phonosolar.com / info@phonosolar.com

1000V	Values PS365M5GF-20/UH		PS370M5GF-20/UH		PS375M5GF-20/UH		PS380M5GF-20/UH		PS385M5GF-20/UH	
Model 1500V	PS365M5GFH-20/UH		PS370M5GFH-20/UH		PS375M5GFH-20/UH		PS380M5GFH-20/UH		PS385M5GFH-20/UH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	365	272	370	276	375	280	380	283	385	287
Rated Current (Impp)	10.59	8.55	10.69	8.63	10.79	8.71	10.89	8.79	10.99	8.87
Rated Voltage (Vmpp)	34.47	31.84	34.62	31.97	34.76	32.10	34.90	32.23	35.04	32.36
Short Circuit Current (Isc)	11.23	9.06	11.29	9.11	11.35	9.16	11.41	9.21	11.47	9.26
Open Circuit Voltage (Voc)	41.10	38.88	41.44	39.20	41.78	39.52	42.12	39.85	42.45	40.16
Module Efficiency (%)	20.04		20.31		20.59		20.86		21.13	
STC(Standard Testing Conc	litions): Irra	diance 1000W	/m², AM 1.5, C	ell Temperatur	e 25°C					
NOCT (Nominal Operation (	Cell Temper	ature): Irradiar	nce 800W/m²,	Ambient Temp	erature 20°C	C, Spectra at	AM1.5, Wind c	at 1m/s		
BSTC**										
Maximum Power (Pmax)		395		400		405		410		415
Optimum Operating Curren	nt (Impp)	11.46		11.55		11.65		11.75		11.84
Optimum Operating Voltag	e (Vmpp)	34.47		34.62		34.76		34.90		35.04
Short Circuit Current (Isc)		12.15		12.20		12.26		12.31		12.36
Open Circuit Voltage (Voc)		41.10		41.44		41.78		42.12		42.45
**BSTC:Front Side Irradiation	on 1000W/n	n²,Back Side Re	eflection Irrac	liation 135W/m	<sup>2</sup> ,AM 1.5, Am	bient Tempero	ature 25°C			
**BSTC:Front Side Irradiation			eflection Irrac	liation 135W/m				ristics		
	cteristic		eflection Irrac	liation 135W/m		lectrical	ature 25°C Characte	ristics		
Mechanical Chara	Cteristic M Le W	cs	n (69.09 inch) (40.87 inch)	liation 135W/m	E	Cell temp.=25°C	Characte	ristics		
Mechanical Chara <sup>Cell Type</sup>	Cteristic M Le W He	CS onocrystalline ength: 1755mm idth: 1038mm	n (69.09 inch) (40.87 inch) .18 inch)	liation 135W/m	400 350 300	Cell temp.=25°C Incident Irrad Incident Irrad Incident Irrad Incident Irrad	Characte	ristics		
Mechanical Chara Cell Type Dimension (L × W × H)	Cteristic M Le W He 22	CS onocrystalline ength: 1755mm idth: 1038mm eight: 30mm (1	n (69.09 inch) (40.87 inch) .18 inch) s)		400 350 300	Cell temp.=25°C Incident Irrad Incident Irrad Incident Irrad Incident Irrad	Characte	ristics		
Mechanical Chara Cell Type Dimension (L × W × H) Weight	Cteristic M Le W He 22 2.	CS onocrystalline angth: 1755mm idth: 1038mm eight: 30mm (1 2.5kg (49.60 lb	n (69.09 inch) (40.87 inch) .18 inch) s) oughened glc		400 350	Cell temp.=25°C Incident Irrad Incident Irrad Incident Irrad Incident Irrad	Characte	ristics		
Mechanical Chara Cell Type Dimension (L × W × H) Weight Glass	Cteristic M Le W He 22 2. Ar 4r	CS onocrystalline ingth: 1755mm idth: 1038mm eight: 30mm (1 2.5kg (49.60 lb 0mm/2.0mm to nodized Alumir nm² (IEC),	n (69.09 inch) (40.87 inch) .18 inch) s) oughened glc nium Alloy		400 350 300 <u>2</u> 250 <u>8</u> 200 150 100	Cell temp.=25°C Incident Irrad Incident Irrad Incident Irrad Incident Irrad	Characte	ristics		
Mechanical Chara Cell Type Dimension (L × W × H) Weight Glass Frame Cable	Cteristic M Le W He 22 2.1 Ar 4r (+	CS onocrystalline ingth: 1755mm idth: 1038mm eight: 30mm (1 2.5kg (49.60 lb 0mm/2.0mm to nodized Alumir nm² (IEC),	n (69.09 inch) (40.87 inch) .18 inch) s) oughened glc nium Alloy	155	400 350 300 <u>250</u> <u>90</u> 150 100 th 50 0	Cell temp.=25°C Incident Irrad Incident Irrad Incident Irrad Incident Irrad	Characte			40
Mechanical Chara Cell Type Dimension (L × W × H) Weight Glass Frame Cable (Including Connector) Junction Box	Cteristic M Le W He 22 2. Ar 4r (+	CS onocrystalline ingth: 1755mm idth: 1038mm eight: 30mm (1 2.5kg (49.60 lb 0mm/2.0mm tr nodized Alumir nm² (IEC), ): 450mm,(-): 2	n (69.09 inch) (40.87 inch) .18 inch) s) oughened glc nium Alloy	155	400 350 300 <u>250</u> <u>90</u> 150 100 th 50 0	Cell temp.=25°C Incident Irrad Incident Irrad Incident Irrad Incident Irrad	Characte	1 20 Voltage [V]		40
Mechanical Chara Cell Type Dimension (L × W × H) Weight Glass Frame Cable (Including Connector) Junction Box Temperature Ratin	Icteristic M Le W He 22 2.1 Ar 4r (+ IP Ngs	CS onocrystalline ength: 1755mm idth: 1038mm eight: 30mm (1 2.5kg (49.60 lb 0mm/2.0mm to nodized Alumir nm <sup>2</sup> (IEC), ): 450mm,(-): 2 68 Rated	n (69.09 inch) (40.87 inch) .18 inch) s) oughened glo nium Alloy 250mm or Cu	155	th	Cell temp.=25°C	Characte	<sup>1</sup> <sup>20</sup> vottage [M] ad.=1000W/m <sup>2</sup>	30	40
Mechanical Chara Cell Type Dimension (L × W × H) Weight Glass Frame Cable (Including Connector) Junction Box Temperature Ratin Voltage Temperature Coeff	Arcteristic M Le W He 22 2. Ar 4r (+ IP Ngs	CS onocrystalline ength: 1755mm idth: 1038mm eight: 30mm (1 2.5kg (49.60 lb 0mm/2.0mm to nodized Alumin nm² (IEC), ): 450mm,(-): 2 68 Rated -0.27%/	n (69.09 inch) (40.87 inch) .18 inch) s) oughened glc nium Alloy 250mm or Cus	155	th	Cell temp.=25°C	Characte	1 20 Voltage [M] ad.=1000W/m <sup>2</sup> ad.=800W/m <sup>2</sup>		40
Mechanical Chara Cell Type Dimension (L × W × H) Weight Glass Frame Cable (Including Connector) Junction Box Temperature Ratin Voltage Temperature Coeff Current Temperature Coeff	Icteristic M Le W He 22 2. 2. Ar 4r (+ P DGS	2S onocrystalline ength: 1755mm idth: 1038mm eight: 30mm (1 2.5kg (49.60 lb 0mm/2.0mm to nodized Alumir nm² (IEC), ): 450mm,(-): 2 68 Rated -0.27%/ <sup>4</sup> +0.0459	n (69.09 inch) (40.87 inch) .18 inch) s) oughened glc nium Alloy 250mm or Cu: 250mm or Cu:	155	th	Cell temp.=25°C	Characte	1 20 voltage [V] ad.=1000W/m <sup>2</sup> ad.=800W/m <sup>2</sup> ad.=600W/m <sup>2</sup>	30	40
Mechanical Chara Cell Type Dimension (L × W × H) Weight Glass Frame Cable (Including Connector) Junction Box Temperature Ratin Voltage Temperature Coeff Current Temperature Coeff Power Temperature Coeffic	Icteristic M Le W He 22 2. 2. Ar 4r (+ P DGS	2S onocrystalline ength: 1755mm idth: 1038mm eight: 30mm (1 2.5kg (49.60 lb 0mm/2.0mm to hodized Alumin nm² (IEC), ): 450mm,(-): 2 68 Rated -0.27%/ <sup>4</sup> +0.0459 -0.34%/ <sup>4</sup>	n (69.09 inch) (40.87 inch) .18 inch) s) oughened glc nium Alloy 250mm or Cu: 250mm or Cu:	155	th	Cell temp.=25°C	Characte	1 20 Voltage [V] ad.=1000W/m <sup>2</sup> ad.=600W/m <sup>2</sup> ad.=600W/m <sup>2</sup> ad.=400W/m <sup>2</sup>		40
Mechanical Chara Cell Type Dimension (L × W × H) Weight Glass Frame Cable (Including Connector) Junction Box Temperature Ratin Voltage Temperature Coeff Current Temperature Coeff	Icteristic M Le W He 22 2. 2. Ar 4r (+ P DGS	2S onocrystalline ength: 1755mm idth: 1038mm eight: 30mm (1 2.5kg (49.60 lb 0mm/2.0mm to nodized Alumir nm² (IEC), ): 450mm,(-): 2 68 Rated -0.27%/ <sup>4</sup> +0.0459	n (69.09 inch) (40.87 inch) .18 inch) s) oughened glc nium Alloy 250mm or Cu: 250mm or Cu:	155	th	Cell temp.=25°C	Characte	1 20 voltage [V] ad.=1000W/m <sup>2</sup> ad.=800W/m <sup>2</sup> ad.=600W/m <sup>2</sup>		40

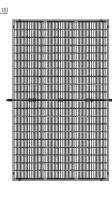
Abso	lute Maximum Rating
Oporati	na Tomporaturo

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				
PV Module Classification	II				
Fire Rating (IEC61730)	С				
Maximum System Voltage	DC 1000V/1500V				
Packing Configuration					
Container	20' GP	40' HQ			
Pieces/Container	336	936			
Pcs/Pallet	56	36			
Pallets/Container	6	26			





<u>13 (0.51)</u> A-A



Note:mm (inch)



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1755±2 (69.09)