

# TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC M1-5B-R

# 395-415W



## OUTSTANDING PRODUCT PERFORMANCE

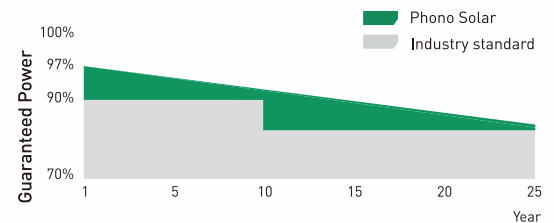
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature at  $43 \pm 2^{\circ}\text{C}$
- Higher power generation with multi-busbar and half-cut technology

## TRUSTWORTHY QUALITY AND RELIABILITY

- Guaranteed 0~+5W positive tolerance secures reliable power output
- 5400Pa maximum snow load, 2400Pa maximum wind load
- Optimized electrical design lowers hot spot risk and operating current

## PID RESISTANT

- Optimized cell processing technology and electrical design ensures solid PID resistanc



12-year Product Warranty | 25-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  
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## ELECTRICAL TYPICAL VALUES

Model	PS395M1-24/TH		PS400M1-24/TH		PS405M1-24/TH		PS410M1-24/TH		PS415M1-24/TH	
	PS395M1H-24/TH	PS400M1H-24/TH	PS405M1H-24/TH	PS410M1H-24/TH	PS415M1H-24/TH	STC	NOCT	STC	NOCT	STC
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (P <sub>mpp</sub> )	395	294	400	298	405	302	410	306	415	309
Rated Current (I <sub>mpp</sub> )	9.67	7.78	9.72	7.82	9.77	7.86	9.82	7.91	9.87	7.95
Rated Voltage (V <sub>mpp</sub> )	40.85	37.80	41.16	38.09	41.46	38.36	41.76	38.64	42.05	38.91
Short Circuit Current (I <sub>sc</sub> )	10.29	8.28	10.37	8.35	10.45	8.41	10.53	8.48	10.61	8.54
Open Circuit Voltage (V <sub>oc</sub> )	49.41	46.74	49.69	47.01	49.97	47.27	50.25	47.54	50.53	47.80
Module Efficiency (%)	19.65		19.90		20.15		20.40		20.65	

STC(Standard Testing Conditions):Irradiance 1000W/m<sup>2</sup>, AM 1.5, Cell Temperature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/S

## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline 158.75mm x 79.38mm
Dimension (L× W × H)	Length: 2010mm (79.13 inch)
	Width: 1000mm (39.37 inch)
	Height: 40mm (1.57 inch)
Weight	23.5kg (51.8 lbs)
Front Glass	3.2mm Toughened Glass
Frame	Anodized Aluminium Alloy
Cable	4mm <sup>2</sup> (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

## 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
Application Class and Safety Class	II
Fire Rating (IEC 61730)	C
Module Fire Performance (UL 1703)	Type 1
Maximum System Voltage	DC 1000V/1500V

## PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	230	616

## ELECTRICAL CHARACTERISTICS

