

# TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC M-5B-R

# 305-325W



## OUTSTANDING PRODUCT PERFORMANCE

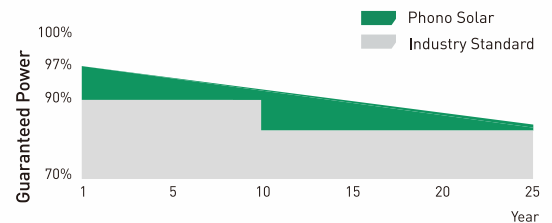
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to  $43 \pm 2^{\circ}\text{C}$
- Higher power generation with multi-busbar and half-cut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

- Industry-leading cell processing technology and electrical design ensure solid PID resistance



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



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## ELECTRICAL TYPICAL VALUES

Model	PS305M-20/UH		PS310M-20/UH		PS315M-20/UH		PS320M-20/UH		PS325M-20/UH	
	PS305MH-20/UH		PS310MH-20/UH		PS315MH-20/UH		PS320MH-20/UH		PS325MH-20/UH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (P <sub>mpp</sub> )	305	227	310	231	315	235	320	238	325	242
Rated Current (I <sub>mpp</sub> )	9.36	7.53	9.41	7.58	9.46	7.62	9.51	7.66	9.56	7.70
Rated Voltage (V <sub>mpp</sub> )	32.59	30.16	32.95	30.49	33.30	30.82	33.65	31.14	34.00	31.46
Short Circuit Current (I <sub>sc</sub> )	9.83	7.91	9.91	7.98	9.99	8.04	10.07	8.11	10.15	8.17
Open Circuit Voltage (V <sub>oc</sub> )	39.95	37.79	40.31	38.13	40.66	38.46	41.01	38.80	41.36	39.13
Module Efficiency (%)	18.36		18.66		18.96		19.26		19.56	

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 156.75mm x 78.38mm
	Length: 1675mm (65.95 inch)
Dimension (L× W × H)	Width: 992mm (39.06 inch) Height: 35mm (1.38 inch)
Weight	18.5kg (40.78 lbs)
Front Glass	3.2mm Toughened Glass
Frame	Anodized Aluminium Alloy
Cable	4mm <sup>2</sup> (IEC), Length:350mm (vertical) 1150mm (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
PV Module Classification	II
Fire Rating (IEC 61730)	C
Module Fire Performance (UL 1703)	Type 4
Maximum System Voltage	DC 1000V/1500V

## PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	312	832

## ELECTRICAL CHARACTERISTICS

