

TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC M-5B-R

305-325W



OUTSTANDING PRODUCT PERFORMANCE

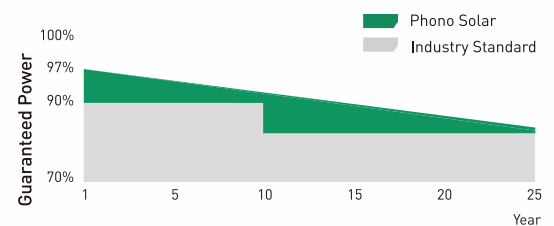
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to $43 \pm 2^{\circ}\text{C}$

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



Bloomberg Tier¹
NEW ENERGY FINANCE



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 _{mpp}) | 305 | 227 | 310 | 231 | 315 | 235 | 320 | 238 | 325 | 242 |
| Rated Current (I _{mpp}) | 9.36 | 7.53 | 9.41 | 7.58 | 9.46 | 7.62 | 9.51 | 7.66 | 9.56 | 7.70 |
| Rated Voltage (V _{mpp}) | 32.59 | 30.16 | 32.95 | 30.49 | 33.30 | 30.82 | 33.65 | 31.14 | 34.00 | 31.46 |
| Short Circuit Current (I _{sc}) | 9.83 | 7.91 | 9.91 | 7.98 | 9.99 | 8.04 | 10.07 | 8.11 | 10.15 | 8.17 |
| Open Circuit Voltage (V _{oc}) | 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/m², AM 1.5, Cell Temperature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m², 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 ² (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 |
| Maximum System Voltage | DC 1000V/1500V |

PACKING CONFIGURATION

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

ELECTRICAL CHARACTERISTICS

