

TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC M4-9B-R

400-420W



OUTSTANDING PRODUCT PERFORMANCE

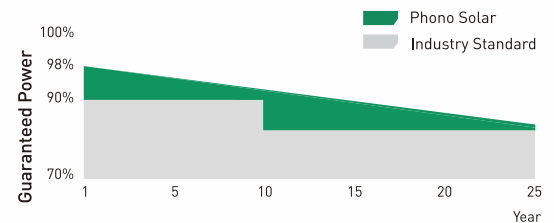
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to $43 \pm 2^{\circ}\text{C}$
- Higher power generation with multi-busbar and half-cut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



Bloomberg Tier¹
NEW ENERGY FINANCE



ELECTRICAL TYPICAL VALUES

| Model | PS400M4-22/WH | | PS405M4-22/WH | | PS410M4-22/WH | | PS415M4-22/WH | | PS420M4-22/WH | |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|-------|---------------|-------|---------------|-------|
| | PS400M4H-22/WH | PS405M4H-22/WH | PS410M4H-22/WH | PS415M4H-22/WH | PS420M4H-22/WH | | | | | |
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Rated Power (Pmpp) | 400 | 300 | 405 | 304 | 410 | 307 | 415 | 311 | 420 | 315 |
| Rated Current (Impp) | 10.51 | 8.48 | 10.58 | 8.54 | 10.65 | 8.60 | 10.72 | 8.65 | 10.79 | 8.71 |
| Rated Voltage (Vmpp) | 38.06 | 35.34 | 38.28 | 35.55 | 38.50 | 35.75 | 38.72 | 35.95 | 38.93 | 36.15 |
| Short Circuit Current (Isc) | 11.01 | 8.89 | 11.12 | 8.98 | 11.23 | 9.06 | 11.34 | 9.15 | 11.45 | 9.24 |
| Open Circuit Voltage (Voc) | 45.25 | 42.97 | 45.36 | 43.07 | 45.47 | 43.18 | 45.58 | 43.28 | 45.69 | 43.39 |
| Module Efficiency (%) | 19.98 | | 20.23 | | 20.48 | | 20.73 | | 20.98 | |

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 166mm x 83mm |
| Dimension (L× W × H) | Length: 1925mm (75.79 inch) |
| | Width: 1040mm (40.94 inch) |
| | Height: 35mm (1.38 inch) |
| Weight | 23.0kg (50.71lbs) |
| Front Glass | 3.2mm Toughened Glass |
| Frame | Anodized Aluminium Alloy |
| Cable (Including Connector) | 4mm ² (IEC) (+):450mm,(-):250mm or Customized Length |
| Junction Box | IP 68 Rated |

TEMPERATURE RATINGS

| | |
|---------------------------------|-----------|
| Voltage Temperature Coefficient | -0.28%/°C |
| Current Temperature Coefficient | +0.05%/°C |
| Power Temperature Coefficient | -0.35%/°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 1500V/1000V |

PACKING CONFIGURATION

| | | |
|------------------|--------|--------|
| Container | 20' GP | 40' HQ |
| Pieces/Container | 235 | 744 |

ELECTRICAL CHARACTERISTICS

