

# TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC M6-10B-R

# 530-550W



## OUTSTANDING PRODUCT PERFORMANCE

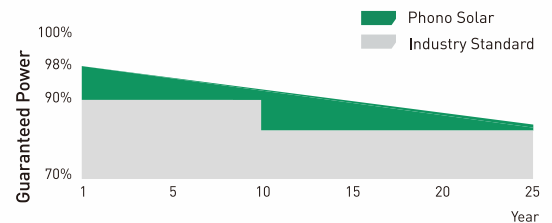
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to  $45 \pm 2^{\circ}\text{C}$
- Higher power generation with multi-busbar and half-cut 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                                    | PS530M6-24/TH  |                | PS535M6-24/TH  |                | PS540M6-24/TH  |       | PS545M6-24/TH |       | PS550M6-24/TH |       |
|--|----------------|----------------|----------------|----------------|----------------|-------|---------------|-------|---------------|-------|
|  | PS530M6H-24/TH | PS535M6H-24/TH | PS540M6H-24/TH | PS545M6H-24/TH | PS550M6H-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> )          | 530            | 394            | 535            | 398            | 540            | 402   | 545           | 405   | 550           | 409   |
| Rated Current (I <sub>mpp</sub> )        | 12.88          | 10.41          | 12.97          | 10.48          | 13.06          | 10.55 | 13.15         | 10.63 | 13.24         | 10.70 |
| Rated Voltage (V <sub>mpp</sub> )        | 41.15          | 37.89          | 41.25          | 37.98          | 41.35          | 38.07 | 41.45         | 38.16 | 41.55         | 38.25 |
| Short Circuit Current (I <sub>sc</sub> ) | 13.42          | 10.84          | 13.52          | 10.92          | 13.62          | 11.00 | 13.72         | 11.09 | 13.82         | 11.17 |
| Open Circuit Voltage (V <sub>oc</sub> )  | 49.19          | 46.44          | 49.29          | 46.53          | 49.39          | 46.62 | 49.49         | 46.72 | 49.59         | 46.81 |
| Module Efficiency (%)                    | 20.51          |                | 20.70          |                | 20.89          |       | 21.09         |       | 21.28         |       |

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 182mm x 91mm  |
| Dimension (L× W × H)           | Length: 2279mm (89.72 inch)   |
|                                | Width: 1134mm (44.65 inch)  |
|                                | Height: 35mm (1.38 inch)  |
| Weight                         | 29.0kg (63.93 lbs)  |
| Front Glass                    | 3.2mm Toughened Glass   |
| Frame                          | Anodized Aluminium Alloy  |
| Cable<br>(Including Connector) | 4mm <sup>2</sup> (IEC),<br>(+):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                            | 45±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        | 25A               |
| 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 | 155    | 620    |

## ELECTRICAL CHARACTERISTICS

