

# PREMIUM PLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC M1-5B-R

# 390-410W



## HIGHER POWER OUTPUT

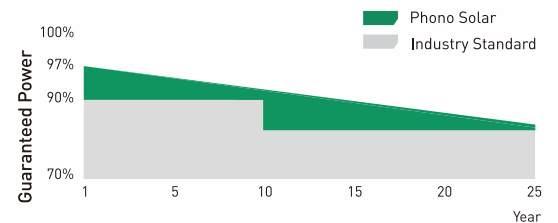
- ◆ Outstanding performance under weak-light conditions
- ◆ Superior temperature coefficient guarantees power generation efficiency

## HIGHER QUALITY RELIABILITY AND DURABILITY

- ◆ 5400Pa maximum snow load, 2400Pa maximum wind load
- ◆ Guaranteed 0~+5W positive tolerance secures reliable power output
- ◆ Strict internal quality assurance plan and extended testing standards ensures enhanced durability

## PID RESISTANT

- ◆ Improved cell processing technology and IEC-certified electrical design guarantee 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 Tier<sup>1</sup>  
NEW ENERGY FINANCE



## ELECTRICAL TYPICAL VALUES

| Model                                    | PS390M1-24/T  |       | PS395M1-24/T  |       | PS400M1-24/T  |       | PS405M1-24/T  |       | PS410M1-24/T  |       |
|--|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
|  | PS390M1H-24/T |       | PS395M1H-24/T |       | PS400M1H-24/T |       | PS405M1H-24/T |       | PS410M1H-24/T |       |
| Testing Condition                        | STC           | NOCT  | STC           | NOCT  | STC           | NOCT  | STC           | NOCT  | STC           | NOCT  |
| Rated Power (P <sub>mpp</sub> )          | 390           | 288   | 395           | 292   | 400           | 295   | 405           | 299   | 410           | 302   |
| Rated Current (I <sub>mpp</sub> )        | 9.62          | 7.77  | 9.67          | 7.81  | 9.72          | 7.85  | 9.77          | 7.89  | 9.82          | 7.93  |
| Rated Voltage (V <sub>mpp</sub> )        | 40.55         | 37.03 | 40.85         | 37.31 | 41.16         | 37.59 | 41.46         | 37.86 | 41.76         | 38.13 |
| Short Circuit Current (I <sub>sc</sub> ) | 10.21         | 8.25  | 10.29         | 8.31  | 10.37         | 8.38  | 10.45         | 8.44  | 10.53         | 8.51  |
| Open Circuit Voltage (V <sub>oc</sub> )  | 49.13         | 45.30 | 49.41         | 45.56 | 49.69         | 45.81 | 49.97         | 46.07 | 50.25         | 46.33 |
| Module Efficiency (%)                    | 19.70         |       | 19.95         |       | 20.20         |       | 20.45         |       | 20.71         |       |

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 158.75mm                        |
|                   | Length: 1980mm [77.95 inch]                                |
| Dimension (L×W×H) | Width: 1000mm [39.37 inch]                                 |
|                   | Height: 35mm [1.38 inch]                                   |
| Weight            | 22.0kg [48.50 lbs]   |
| Front Glass       | 3.2mm Toughened Glass                                      |
| Frame             | Anodized Aluminium Alloy                                   |
| Cable             | 4mm <sup>2</sup> (IEC), Length:1160mm or Customized Length |
| Junction Box      | IP 68 Rated  |

## TEMPERATURE RATINGS

|                                 |           |
|---------------------------------|-----------|
| Voltage Temperature Coefficient | -0.31%/°C |
| Current Temperature Coefficient | +0.05%/°C |
| Power Temperature Coefficient   | -0.39%/°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        | 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 | 255    | 726    |

## ELECTRICAL CHARACTERISTICS

