

# REESUN108H-182M Mono Crystal Single-Glass 395-420W

**High Efficiency  
Low LID Mono PERC with  
Half-cut Technology**

**Better anti-PID performance**

Guaranteed power tolerance(0~+5W)

**High module conversion efficiency(up to 21.51%)**

Lower current

higher power generation

Lower risk of hot spot

**Low LID Mono PERC technology:** first year < 2.0%, 0.55% year 2-25

**Comprehensive System and Product Certifications**

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System

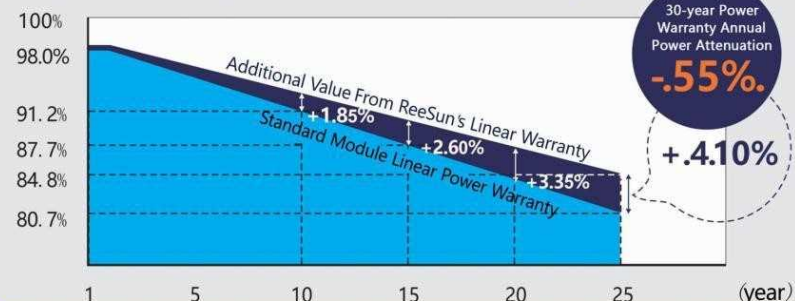
ISO 14001:2015: ISO Environmental Management System

ISO 45001:2018 Occupational Health and Safety

\* Specifications subject to technical changes and tests.

ReeSun solar reserves the right of interpretation.

**12-year Warranty for Materials and Processing;  
30-year Warranty for Extra Linear Power Output.**



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Jiangsu ReeSun Solar Co., Ltd. is a high-tech PV enterprise dedicated to research, development, production, sales & after sales service, mainly engaged in crystalline silicon solar cells, solar modules, photovoltaic systems PV applications. Our product specifications are compatible with 158-210 size cells adopting German TUV quality control standards, and realizing the whole process quality traceability from auxiliary materials to finished products.

# REESUN108H-182M

# 395-420W

## Electrical Characteristics

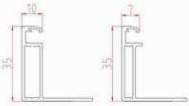
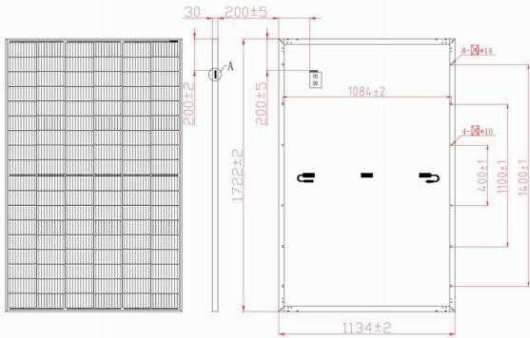
Test uncertainty for Pmax: ±3%

| Model Number                     | 395W  |       | 400W  |       | 405W  |       | 410W  |       | 415W  |       | 420W  |       |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Testing Condition                | STC   | NOCT  | STC   | NOCT  | STC   | NOCT  | STC   | NOCT  | STC   | NOCT  | STC   | NOCT  |
| Maximum Power (Pmax/W)           | 395   | 298   | 400   | 302   | 405   | 306   | 410   | 310   | 415   | 314   | 420   | 318   |
| Voltage at Maximum Power (Vmp/V) | 30.84 | 34.75 | 31.02 | 34.88 | 31.23 | 35.12 | 31.45 | 35.23 | 31.64 | 35.37 | 31.82 | 35.50 |
| Current at Maximum Power (Imp/A) | 12.81 | 29.08 | 12.90 | 29.26 | 12.97 | 29.47 | 13.04 | 29.72 | 13.12 | 29.89 | 13.20 | 30.09 |
| Open Circuit Voltage (Voc/V)     | 36.98 | 10.96 | 37.07 | 11.03 | 37.19 | 11.10 | 37.32 | 11.16 | 37.45 | 11.22 | 37.58 | 11.29 |
| Short Circuit Current (Isc/A)    | 13.70 | 10.25 | 13.79 | 10.32 | 13.87 | 10.38 | 13.95 | 10.43 | 14.02 | 10.50 | 14.10 | 10.57 |
| Module Efficiency (%)            | 20.23 |       | 20.48 |       | 20.74 |       | 21.00 |       | 21.25 |       | 21.51 |       |

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5  
 NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

## Design(mm)

## Mechanical & Operating parameters



border cross section

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| Cell Orientation                   | 108 (6×18)                                                   |
| Junction Box                       | IP68, three diodes                                           |
| Output Cable                       | 4mm <sup>2</sup> , 300mm in length, length can be customized |
| Glass                              | Single glass 3.2mm coated tempered glass                     |
| Frame                              | Anodized aluminum alloy frame                                |
| Weight                             | 21.5kg±3%                                                    |
| Dimension                          | 1722x1134x30mm                                               |
| Packaging                          | 36pcs/pallet 936pcs/40'HC                                    |
| Operational Temperature            | -40°C ~ +85°C                                                |
| Power Output Tolerance             | 0~+5 W                                                       |
| Voc and Isc Tolerance              | ±4%/±3%                                                      |
| Maximum System Voltage             | DC1500V (IEC/UL)                                             |
| Maximum Series Fuse Rating         | 25A                                                          |
| Nominal Operating Cell Temperature | 45±2°C                                                       |
| Safety Class                       | Class II                                                     |
| Fire Rating                        | Class C                                                      |

## Temperature Ratings(STC)

## Mechanical Loading

|                                 |            |
|---------------------------------|------------|
| Temperature Coefficient of Isc  | +0.048%/°C |
| Temperature Coefficient of Voc  | -0.270%/°C |
| Temperature Coefficient of Pmax | -0.350%/°C |

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Front Side Maximum Static Loading | 5400Pa                               |
| Rear Side Maximum Static Loading  | 2400Pa                               |
| Hailstone Test                    | 25mm Hailstone at the speed of 23m/s |

## I-V 曲线 (REESUN108H-182M-410W)

