# Harvest the Sunshine



Poly

## 295W Half-Cell Module

JAP60S10 275-295/SC/1000V Series

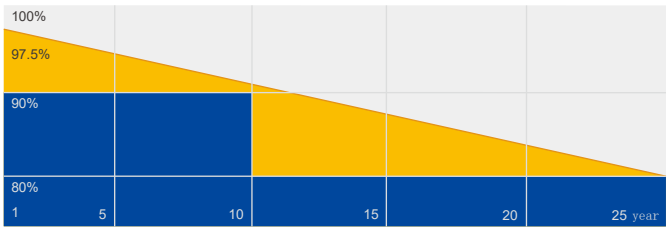
### Introduction

The modules assembled with half cells not only generate more power output, but also perform better during daily operation as a result of lower temperature coefficient of power, along with reduced shading effect on the energy generation, lower risk of hot spot, and enhanced tolerance for mechanical loading.

- Higher output power
- Lower temperature coefficient
- Less shading effect
- Better mechanical loading tolerance

### Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty




### Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems

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Specificantions subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

Shanghai JA Solar Technology Co., Ltd.

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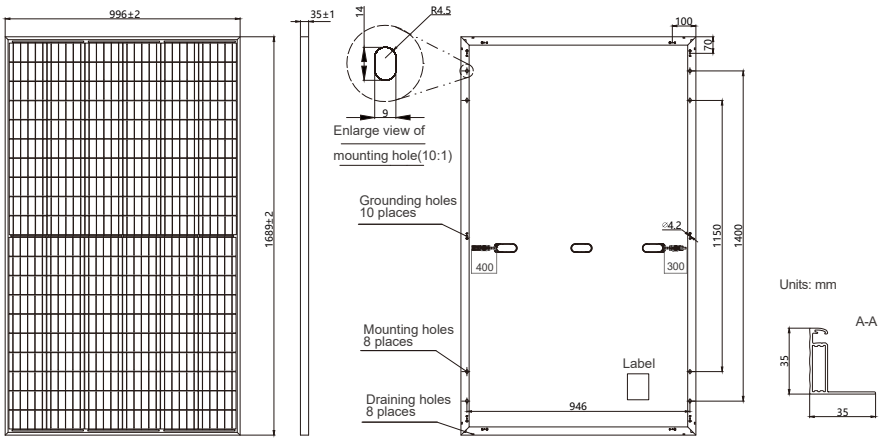
# JAP60S10 275-295/SC/1000V Series

## MECHANICAL DIAGRAMS




Remark: customized frame color and cable length available upon request

## SPECIFICATIONS

| | |
|---|---|
| Cell | Poly |
| Weight | 18.7kg±3% |
| Dimensions | 1689±2mm×996±2mm×35±1mm |
| Cable Cross Section Size | 4mm² |
| No. of cells | 120（6×20） |
| Connector | PV-ZH202<br>PV-KBT4/6II(female),PV-KST4/6II(male)<br>QC4.10<br>Helios H4<br>H4 UTX |
| Country of Manufacturer | China/Vietnam |

## ELECTRICAL PARAMETERS AT STC

| TYPE | JAP60S10 -275/SC/1000V | JAP60S10 -280/SC/1000V | JAP60S10 -285/SC/1000V | JAP60S10 -290/SC/1000V | JAP60S10 -295/SC/1000V |
|---|---|---|---|---|---|
| Rated Maximum Power(Pmax) [W] | 275 | 280 | 285 | 290 | 295 |
| Open Circuit Voltage(Voc) [V] | 37.95 | 38.14 | 38.31 | 38.48 | 38.65 |
| Maximum Power Voltage(Vmp) [V] | 31.22 | 31.47 | 31.71 | 31.91 | 32.14 |
| Short Circuit Current(Isc) [A] | 9.29 | 9.38 | 9.47 | 9.56 | 9.65 |
| Maximum Power Current(Imp) [A] | 8.81 | 8.90 | 8.99 | 9.09 | 9.18 |
| Module Efficiency [%] | 16.3 | 16.6 | 16.9 | 17.2 | 17.5 |
| Power Tolerance | 0~+5W | | | | |
| Temperature Coefficient of Isc(α_Isc) | +0.054%/℃ | | | | |
| Temperature Coefficient of Voc(β_Voc) | -0.300%/℃ | | | | |
| Temperature Coefficient of Pmax(γ_Pmp) | -0.370%/℃ | | | | |
| STC | Irradiance 1000W/m², cell temperature 25℃, AM1.5G | | | | |

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.
Measurement tolerance at STC: Pmax ±3 %, Voc ±2% and Isc ±4%.

## ELECTRICAL PARAMETERS AT NOCT

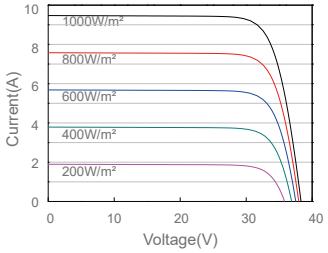
| TYPE | JAP60S10 -275/SC/1000V | JAP60S10 -280/SC/1000V | JAP60S10 -285/SC/1000V | JAP60S10 -290/SC/1000V | JAP60S10 -295/SC/1000V |
|---|---|---|---|---|---|
| Rated Max Power(Pmax) [W] | 204 | 208 | 212 | 216 | 220 |
| Open Circuit Voltage(Voc) [V] | 36.75 | 36.90 | 37.05 | 37.23 | 37.40 |
| Max Power Voltage(Vmp) [V] | 29.39 | 29.59 | 29.78 | 29.96 | 30.14 |
| Short Circuit Current(Isc) [A] | 7.40 | 7.49 | 7.58 | 7.67 | 7.75 |
| Max Power Current(Imp) [A] | 6.94 | 7.03 | 7.12 | 7.21 | 7.30 |
| NOCT | Irradiance 800W/m², ambient temperature 20℃, wind speed 1m/s, AM1.5G | | | | |

## OPERATING CONDITIONS

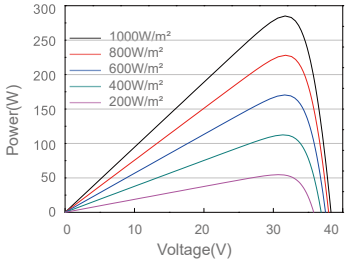
| | |
|---|---|
| Maximum System Voltage | 1000V DC(IEC) |
| Operating Temperature | -40℃~+85℃ |
| Maximum Series Fuse | 20A |
| Maximum Static Load,Front | 3600Pa, 1.5 |
| Maximum Static Load,Back | 1600Pa, 1.5 |
| NOCT | 45±2℃ |
| Application Class | Class A |

## CHARACTERISTICS

Current-Voltage Curve JAP60S10-285/SC/1000V




Power-Voltage Curve JAP60S10-285/SC/1000V




Current-Voltage Curve JAP60S10-285/SC/1000V

