



290W Half-Cell Module

JAP60S03 270-290/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



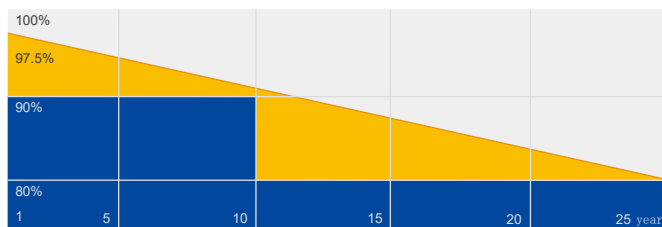
Less shading effect



Better mechanical loading tolerance

Superior Warranty

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



■ JA Linear Power Warranty ■ Industry Warranty

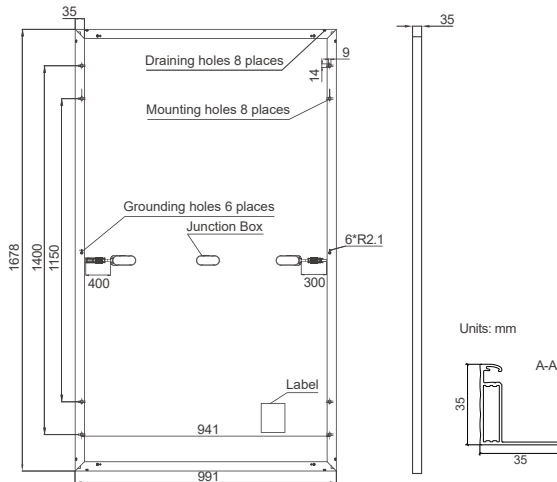
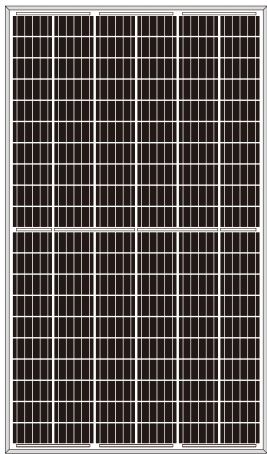
Comprehensive Certificates

- 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



MECHANICAL DIAGRAMS

SPECIFICATIONS



Remark: customized frame color and cable length available upon request

Cell	Poly
Weight	18.5kg±3%
Dimensions	1678mm×991mm×35mm
Cable Cross Section Size	4mm ²
No. of cells	120(6x20)
Connector	Genuine MC4 QC4.10
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAP60S03-270/SC /1000V	JAP60S03-275/SC /1000V	JAP60S03-280/SC /1000V	JAP60S03-285/SC /1000V	JAP60S03-290/SC /1000V
Rated Maximum Power(Pmax) [W]	270	275	280	285	290
Open Circuit Voltage(Voc) [V]	37.65	37.87	38.08	38.30	38.50
Maximum Power Voltage(Vmp) [V]	31.33	31.54	31.81	32.02	32.23
Short Circuit Current(Isc) [A]	9.24	9.33	9.43	9.53	9.62
Maximum Power Current(Imp) [A]	8.64	8.74	8.83	8.92	9.01
Module Efficiency [%]	16.2	16.5	16.8	17.1	17.4
Power Tolerance	0~+5W				
Temperature Coefficient of Isc(α _{Isc})	+0.054%/°C				
Temperature Coefficient of Voc(β _{Voc})	-0.300%/°C				
Temperature Coefficient of Pmax(γ _{Pmp})	-0.370%/°C				
STC	Irradiance 1000W/m ² , cell temperature 25°C, 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.

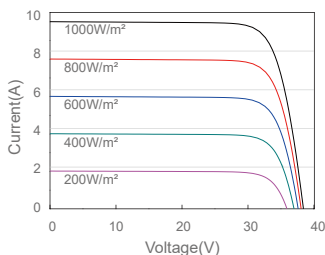
ELECTRICAL PARAMETERS AT NOCT

OPERATING CONDITIONS

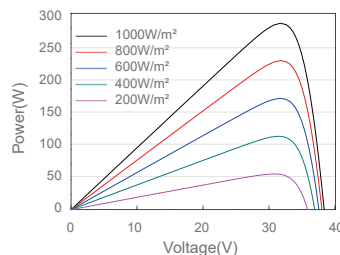
TYPE	JAP60S03-270/SC/1000V	JAP60S03-275/SC/1000V	JAP60S03-280/SC/1000V	JAP60S03-285/SC/1000V	JAP60S03-290/SC/1000V	Maximum System Voltage	1000V DC(IEC)
Rated Max Power(Pmax) [W]	200	204	207	211	215	Operating Temperature	-40°C~+85°C
Open Circuit Voltage(Voc) [V]	36.25	36.56	36.85	37.05	37.25	Maximum Series Fuse	20A
Max Power Voltage(Vmp) [V]	29.29	29.48	29.69	29.83	30.01	Maximum Static Load,Front	3600Pa, 1.5
Short Circuit Current(Isc) [A]	7.27	7.33	7.40	7.49	7.57	Maximum Static Load,Back	1600Pa, 1.5
Max Power Current(Imp) [A]	6.82	6.90	6.98	7.07	7.15	NOCT	45±2°C
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					Application Class	Class A

CHARACTERISTICS

Current-Voltage Curve JAP60S03-285/SC/1000V



Power-Voltage Curve JAP60S03-285/SC/1000V



Current-Voltage Curve JAP60S03-285/SC/1000V

