

2. Specifications for solar PV.

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Harvest the Sunshine



DEEP BLUE 3.0
Mono 550W MBB Half-cell Module
JAM72S30 525-550/MR/1500V

Introduction
Assembled with 11BB PERC cells, the half-cell configuration of the module offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower LCOE



Less shading and lower resistive loss



Better mechanical loading tolerance

Superior Warranty

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

0.55% Annual Degradation Over 25 years



■ New linear power warranty ■ Standard module linear power warranty


Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems

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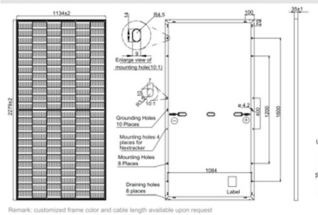
Specifications subject to technical changes and leads
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JAM72S30 525-550/MR/1500V

MECHANICAL DIAGRAMS



Remark: unshaded blue color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	28.6kg±3%
Dimensions	2278±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm ² (IEC) / 12 AWG(L/L)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	Genuine MCA-EV02 QC 4, 10-35/45
Cable Length	Portrait: 300mm(+/-)420mm(-); Landscape: 1300mm(+/-)1300mm(-)
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30-525	JAM72S30-530	JAM72S30-535	JAM72S30-540	JAM72S30-545	JAM72S30-550
Rated Maximum Power(P _{max}) [W]	525	530	535	540	545	550
Open Circuit Voltage(V _{oc}) [V]	49.15	49.30	49.45	49.60	49.75	49.90
Maximum Power Voltage(V _{mp}) [V]	41.15	41.31	41.47	41.64	41.80	41.96
Short Circuit Current(I _{sc}) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(I _{mp}) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.3	20.5	20.7	20.9	21.1	21.3
Power Tolerance	0~+5W					
Temperature Coefficient of I _{sc} (I _{sc}) [1/°C]	+0.045%/°C					
Temperature Coefficient of V _{oc} (V _{oc}) [1/°C]	-0.275%/°C					
Temperature Coefficient of P _{max} (P _{mp}) [1/°C]	-0.350%/°C					

STC Irradiance 1000W/m², 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.
Measurement tolerance at STC: Power ±3%, Voc ±0.5%, and Isc ±0.4%.

ELECTRICAL PARAMETERS AT NOCT

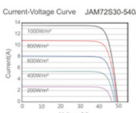
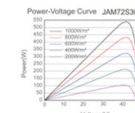
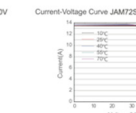
TYPE	JAM72S30-525	JAM72S30-530	JAM72S30-535	JAM72S30-540	JAM72S30-545	JAM72S30-550
Rated Max Power(P _{max}) [W]	397	401	405	408	412	416
Open Circuit Voltage(V _{oc}) [V]	46.05	46.18	46.31	46.43	46.55	46.68
Max Power Voltage(V _{mp}) [V]	38.36	38.57	38.78	38.99	39.20	39.43
Short Circuit Current(I _{sc}) [A]	10.97	11.01	11.05	11.09	11.13	11.17
Max Power Current(I _{mp}) [A]	10.35	10.39	10.43	10.47	10.51	10.55

NOCT Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G
*For Max Tracker installations, Maximum Static Load, Front is 2000Pa while Maximum Static Load, Back is 2000Pa.

OPERATING CONDITIONS

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load Front*	3600Pa, 1.5
Maximum Static Load Back*	1600Pa, 1.5
NOCT	45±2°C
Safety Class	Class 1
Fire Performance	UL Type 1

CHARACTERISTICS

Premium Cells, Premium Modules

Version No.: Global_EN_20210607A


BUILDING-INTEGRATED PHOTOVOLTAIC

GSE IN-ROOF SYSTEM™

BiPV system for traditional photovoltaic panels

Simple, Quick, Aesthetic, Lightweight, Waterproof and Cost-Competitive

More than 4 500 000 m² installed over 10 years



19 available references*

Module width: 803 to 1055 mm
Module length: 1535 to 1780 mm

21 available references*

Module width: 768 to 1120 mm
Module length: 1554 to 1740 mm

* Detailed list available on our website:
www.gseintegration.com/news

GSE IN-ROOF SYSTEM™

BENEFITS

- Economic: the most competitive system for roof renovations and new constructions.
- Easy to install: 10 to 16 panels installed in 6 hours.
- Completely waterproof: ensures complete watertightness of the PV system and the roof.
- The system may be installed in portrait or landscape format.
- Flexible: achieve any desired configuration type (S-shape, pyramid, etc.).
- Compatible with roof windows.
- Impact resistance.
- Very important mechanical resistance:
 - Downward pressure: 5400 Pa (IEC 61215)
 - Upward pressure: up to 5500 Pa (NF EN 12178)

* Eurocode design values: Snow: 1800 Pa, Wind: 1700 Pa *

TECHNICAL SPECIFICATIONS

COMPATIBILITY WITH THE NEW MODULE TECHNOLOGIES:

AVAILABLE FLASHINGS:

- Kit universal
- Kit v-A-2: for traditional states
- Kit v-TS-2: for curved tiles
- Kit v-TN-1 (2020): for flat interlocking tiles
- Kit v-TP-1 (2020): for traditional flat tiles

COMPATIBILITY WITH ROOF WINDOWS:

VELUX **FAKRO** **Roto**

OUR TESTS & CERTIFICATIONS

- CHUBB**: Liability insurance trading and product Liability insurance - DK88 / 15 years product guarantee insurance: EP85
- AVIS**: CCAT-CSTB: ATC N°2116-SF14 - In-Roof System
- FIRE TESTS EXPOSURE**: Compliance BROOF T1, T2 in progress, T3, T4
- ALPES CONTROLS**: ETN42712108 Many modules approved (list available on our website)
- BBA**: MCS 012 certificate no. "MCS BBA 150P" - compatible with more than 30 PV panels - maximum wind load: 2.71 kN/m²
- DIB**: Allgemeine bauaufsichtliche Zulassung no. 2-14.4-B17

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16 solar PV panels in total on south, east and west roof elevation.