



**Mono** 480W 22.0% 166mm  
 MAXIMUM POWER OUTPUT MAXIMUM EFFICIENCY SOLAR CELL  
 9/10BB JAM144S 450-480 Series

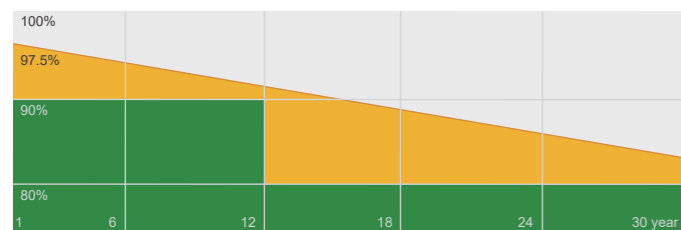
**Introduction**

Assembled with high-efficiency Multi-busbar PERC cells, the half-cell configuration of the modules 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.



**Superior Warranty**

- 15-year product warranty
- 30-year power warranty
- 0.45% annual power consumption



■ Jingsun Linear Power Warranty ■ Industry Warranty

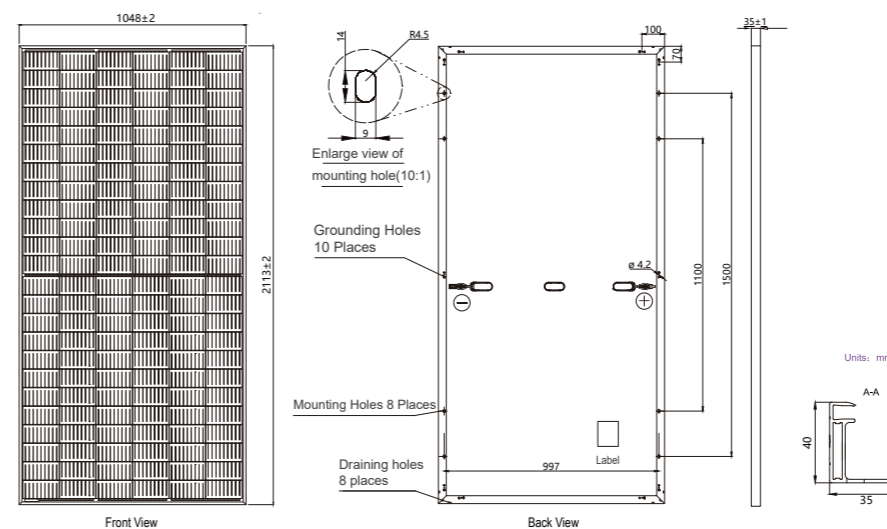
- Higher output power
- Less shading effect
- Lower temperature coefficient
- Better mechanical loading tolerance

**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**



Remark: customized frame color and cable length available upon request

**SPECIFICATIONS**

Cell	166mm half cut
Weight	24kg±3%
Dimension	2113±2mmx1048±2mmx35/30mm or 2094±2mmx1040±2mmx35mm/30mm
Glass	3.2mm <sup>2</sup> low-iron tempered suede glass
No. of cells	144(6x24)
Junction Box	IP≥68,3diodes
Cable&Connector	4mm <sup>2</sup> ,EVO2 or EVO2 compatible
Modules Per Pallet	31/36pieces
Modules Per 40HQ	704/810pieces

**ELECTRICAL PARAMETERS AT STC**

TYPE	JAM144S-450	JAM144S-455	JAM144S-460	JAM144S-465	JAM144S-470	JAM144S-475	JAM144S-480
Rated Maximum Power Pmax(W)	450	455	460	465	470	475	480
Open Circuit Voltage Voc(V)	49.10	49.25	49.40	49.55	49.70	49.85	50.00
Maximum Power Voltage Vmp(V)	41.52	41.82	42.13	42.43	42.69	42.99	43.29
Short Circuit Current Isc(A)	11.36	11.41	11.45	11.49	11.53	11.58	11.63
Maximum Power Current Imp(A)	10.84	10.88	10.92	10.96	11.01	11.05	11.09
Module Efficiency (%)	20.7	20.9	21.1	21.4	21.6	21.8	22.0
Power Tolerance	0~+5W						
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.044%/ C						
Temperature Coefficient of Voc(β <sub>Voc</sub> )	-0.272%/ C						
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.350%/ C						
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25 C , AM1.5G						

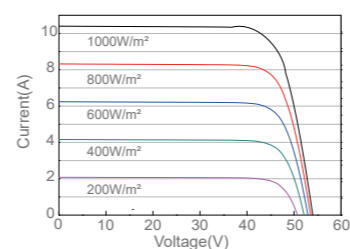
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types. Measurement tolerance at STC: Pmax ±3 %, Voc ±2% and Isc ±4%.

**ELECTRICAL PARAMETERS AT NOCT**

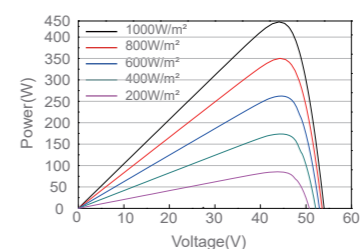
TYPE	JAM144S-450	JAM144S-455	JAM144S-460	JAM144S-465	JAM144S-470	JAM144S-475	JAM144S-480	OPERATING CONDITIONS	
Rated Maximum Power Pmax(W)	340	344	348	352	355	359	363	Maximum System Voltage	1000V/1500V DC(IEC)
Open Circuit Voltage Voc(V)	45.90	46.15	46.38	46.61	46.84	47.07	47.30	Operating Temperature	-40 C ~+85 C
Maximum Power Voltage Vmp(V)	38.19	38.44	38.68	38.90	39.10	39.32	39.54	Maximum Series Fuse	20A
Short Circuit Current Isc(A)	9.25	9.29	9.33	9.38	9.42	9.46	9.50	Maximum Static Load,Front	5400Pa, 1.5
Maximum Power Current Imp(A)	8.90	8.95	9.00	9.05	9.08	9.13	9.18	Maximum Static Load,Back	2400Pa, 1.5
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20 C , wind speed 1m/s, AM1.5G							NOCT	45±2 C
								Application Class	Class A

**CHARACTERISTICS**

Current-Voltage Curve JAM144S-450



Power-Voltage Curve JAM144S-450



Current-Voltage Curve JAM144S-450

