

# Harvest the Sunshine



**Mono**

455W MBB Half-Cell PERC Module  
JAM78S10 435-455/MR 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.



Higher output power



Lower temperature coefficient



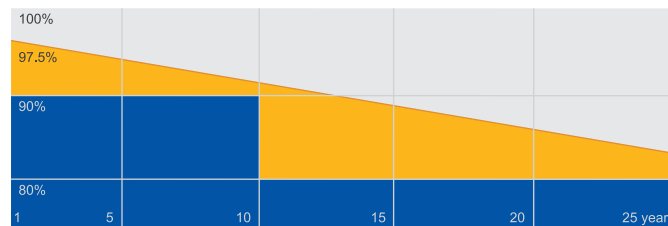
Less shading effect



Better mechanical loading tolerance

## Superior Warranty

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



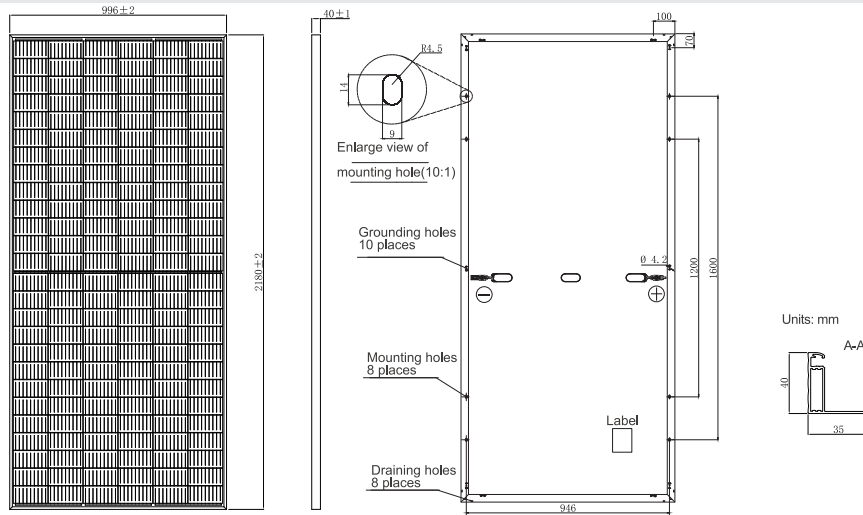
■ JA Linear Power Warranty ■ Industry Warranty

## 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
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design



**MECHANICAL DIAGRAMS**



Remark: customized frame color and cable length available upon request

**SPECIFICATIONS**

Cell	Mono
Weight	24.6kg±3%
Dimensions	2180±2mm×996±2mm×40±1mm
Cable Cross Section Size	4mm <sup>2</sup>
No. of cells	156(6×26)
Junction Box	IP68, 3 diodes
Connector	QC 4.10(1000V) QC 4.10-35(1500V)
Cable Length (Including Connector)	Portrait:300mm(+)/400mm(-); Landscape:1200mm(+)/1200mm(-)
Packaging Configuration	27 Per Pallet

**ELECTRICAL PARAMETERS AT STC**

TYPE	JAM78S10 -435/MR	JAM78S10 -440/MR	JAM78S10 -445/MR	JAM78S10 -450/MR	JAM78S10 -455/MR
Rated Maximum Power(Pmax) [W]	435	440	445	450	455
Open Circuit Voltage(Voc) [V]	52.73	53.00	53.31	53.58	53.87
Maximum Power Voltage(Vmp) [V]	44.50	44.87	45.18	45.51	45.83
Short Circuit Current(Isc) [A]	10.40	10.44	10.48	10.52	10.56
Maximum Power Current(Imp) [A]	9.78	9.81	9.85	9.89	9.93
Module Efficiency [%]	20.0	20.3	20.5	20.7	21.0
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.

**ELECTRICAL PARAMETERS AT NOCT**

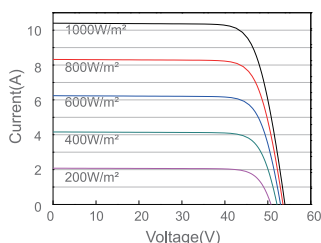
TYPE	JAM78S10 -435/MR	JAM78S10 -440/MR	JAM78S10 -445/MR	JAM78S10 -450/MR	JAM78S10 -455/MR
Rated Max Power(Pmax) [W]	330	334	338	342	346
Open Circuit Voltage(Voc) [V]	50.45	50.66	50.86	51.11	51.38
Max Power Voltage(Vmp) [V]	41.03	41.28	41.57	41.86	42.14
Short Circuit Current(Isc) [A]	8.43	8.48	8.53	8.57	8.61
Max Power Current(Imp) [A]	8.04	8.09	8.13	8.17	8.21
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G				

**OPERATING CONDITIONS**

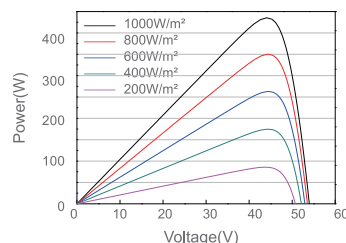
Maximum System Voltage	1000V/1500V DC(IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Static Load,Front	5400Pa
Maximum Static Load,Back	2400Pa
NOCT	45±2°C
Safety Class	Glass II

**CHARACTERISTICS**

Current-Voltage Curve JAM78S10-435/MR



Power-Voltage Curve JAM78S10-435/MR



Current-Voltage Curve JAM78S10-435/MR

