

# Harvest the Sunshine

# JA SOLAR

# 620W



## JAM72S40 MR n-type Half-cell Modules

### Premium Cells

n-  
Bycium+  
16BB

MBB Half-Cell  
Technology

# 26%

Up To

Cell Conversion  
Efficiency

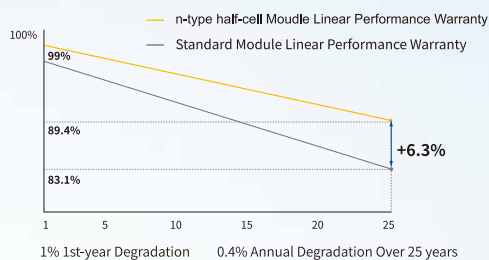
### Premium Modules

Higher power generation better LCOE

n-type with very Lower LID

Better Temperature Coefficient

Better low irradiance response



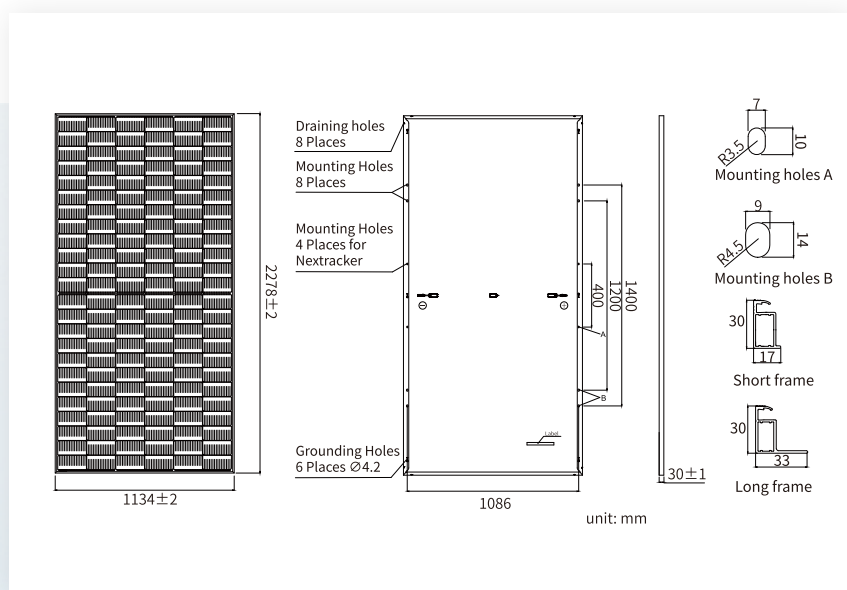
12-year product warranty

25-year linear power output warranty

### Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing





## MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	2278±2mm × 1134±2mm × 30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC4.10-351/MC4-EVO2A
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1300mm(+)/1300mm(-)
Front Glass	3.2mm
Packaging Configuration	36pcs/Pallet, 720pcs/40ft Container

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

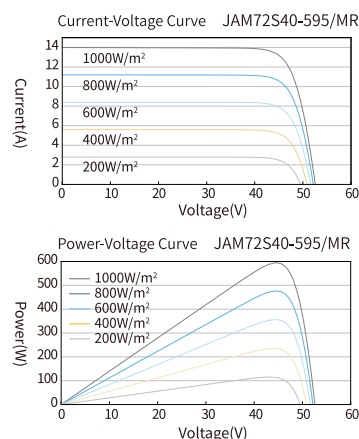
TYPE	JAM72S40 -595/MR	JAM72S40 -600/MR	JAM72S40 -605/MR	JAM72S40 -610/MR	JAM72S40 -615/MR	JAM72S40 -620/MR
Rated Maximum Power(Pmax) [W]	595	600	605	610	615	620
Open Circuit Voltage (Voc) [V]	52.58	52.79	53.00	53.75	53.95	54.15
Maximum Power Voltage(Vmp) [V]	44.64	44.85	45.05	45.26	45.46	45.66
Short Circuit Current(Isc) [A]	13.99	14.04	14.09	14.14	14.19	14.24
Maximum Power Current(Imp) [A]	13.33	13.38	13.43	13.48	13.53	13.58
Module Efficiency [%]	23.0	23.2	23.4	23.6	23.8	24.0
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.290%/°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	JAM72S40 -595/MR	JAM72S40 -600/MR	JAM72S40 -605/MR	JAM72S40 -610/MR	JAM72S40 -615/MR	JAM72S40 -620/MR
Rated Max Power(Pmax) [W]	450	454	458	462	466	469
Open Circuit Voltage(Voc) [V]	49.95	50.15	50.35	51.06	51.25	51.44
Max Power Voltage(Vmp) [V]	42.24	42.43	42.64	42.82	43.01	43.20
Short Circuit Current(Isc) [A]	11.19	11.23	11.27	11.31	11.35	11.39
Max Power Current(Imp) [A]	10.66	10.70	10.75	10.78	10.82	10.86
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

## CHARACTERISTICS



## OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load, Front	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 1/Class C