

# Harvest the Sunshine

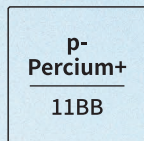
# JA SOLAR

# 425W



## JAM54S30 MR p-type Monofacial Modules

### Premium Cells



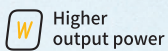
MBB Half-Cell Technology

# 24%



Cell Conversion Efficiency

### Premium Modules



Higher output power



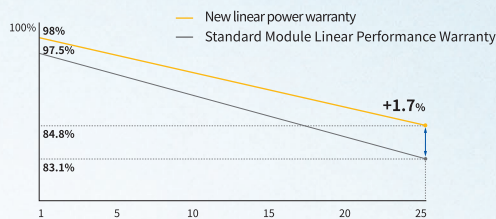
Less shading and lower resistive loss



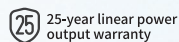
Lower LCOE



Better mechanical loading tolerance



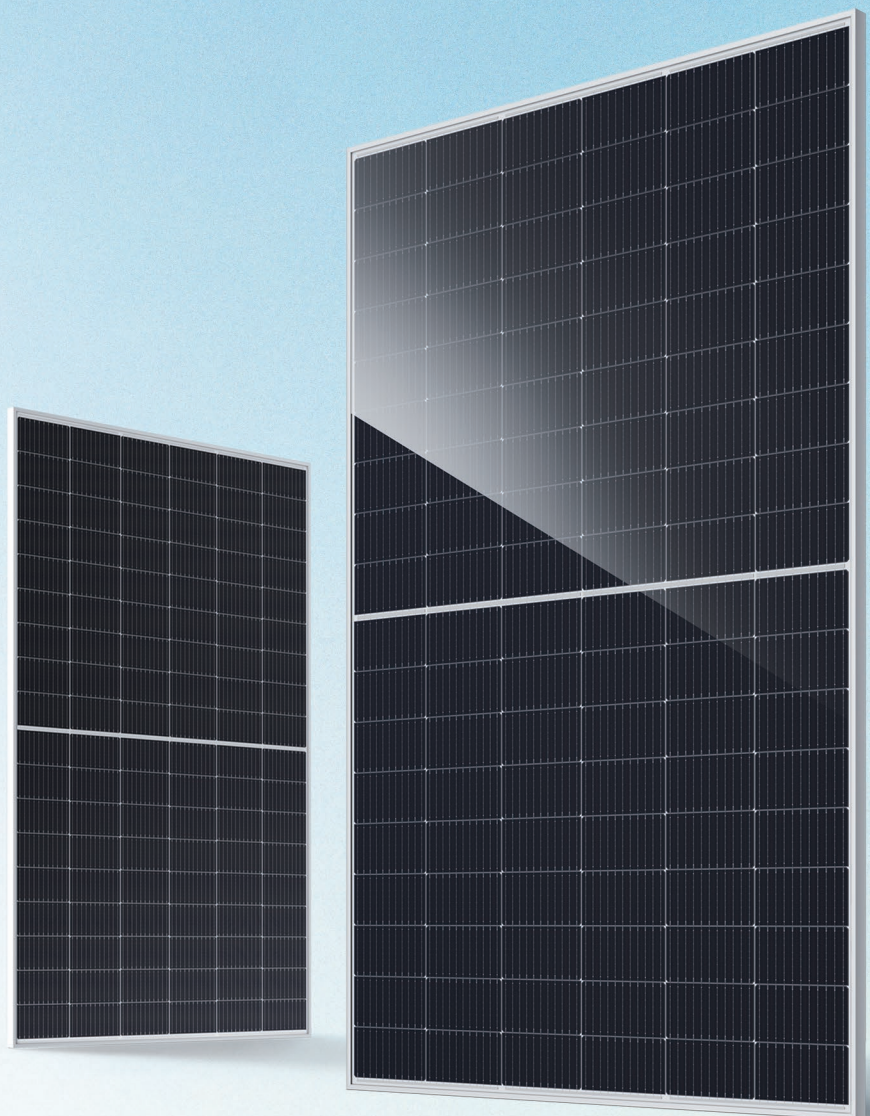
12-year product warranty



25-year linear power output warranty

### Comprehensive Certificates

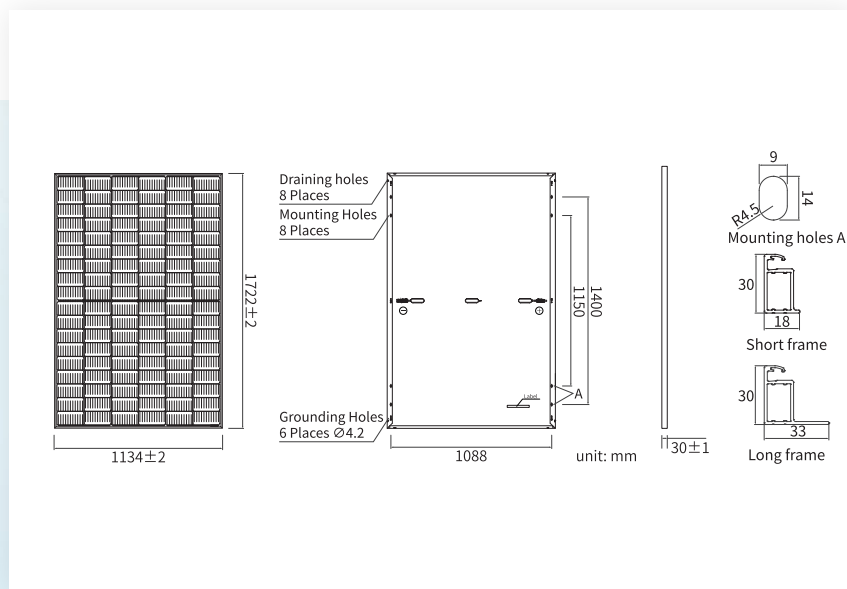
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



## DEEP BLUE 3.0 Light

# JAM54S30 MR

p-type Monofacial Modules



## MECHANICAL PARAMETERS

Cell	Mono
Weight	19.5kg
Dimensions	1722±2mm × 1134±2mm × 30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3diodes
Connector	QC4.10-351/MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1100mm(+)/1100mm(-)
Front Glass	2.8mm
Packaging Configuration	36pcs/Pallet, 936pcs/40ft Container

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

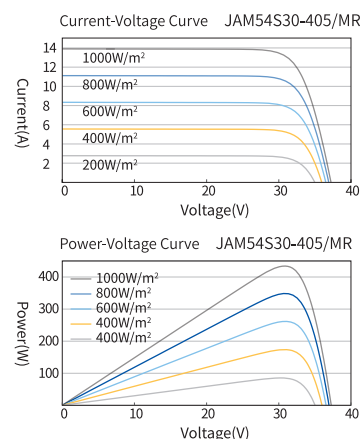
TYPE	JAM54S30 400/MR	JAM54S30 405/MR	JAM54S30 410/MR	JAM54S30 415/MR	JAM54S30 420/MR	JAM54S30 425/MR
Rated Maximum Power(Pmax) [W]	400	405	410	415	420	425
Open Circuit Voltage (Voc) [V]	37.07	37.23	37.32	37.45	37.58	37.72
Maximum Power Voltage(Vmp) [V]	31.01	31.21	31.45	31.61	31.80	31.98
Short Circuit Current(Isc) [A]	13.79	13.87	13.95	14.02	14.10	14.18
Maximum Power Current(Imp) [A]	12.90	12.98	13.04	13.13	13.21	13.29
Module Efficiency [%]	20.5	20.7	21.0	21.3	21.5	21.8
Power Tolerance	0~+3%					
Temperature Coefficient of Isc( $\alpha_{Isc}$ )	+0.045%/°C					
Temperature Coefficient of Voc ( $\beta_{Voc}$ )	-0.275%/°C					
Temperature Coefficient of Pmax( $\gamma_{Pmp}$ )	-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	JAM54S30 400/MR	JAM54S30 405/MR	JAM54S30 410/MR	JAM54S30 415/MR	JAM54S30 420/MR	JAM54S30 425/MR
Rated Max Power(Pmax) [W]	302	306	310	314	318	322
Open Circuit Voltage(Voc) [V]	34.88	35.12	35.23	35.37	35.50	35.64
Max Power Voltage(Vmp) [V]	29.26	29.47	29.72	29.89	30.09	30.26
Short Circuit Current(Isc) [A]	11.03	11.10	11.16	11.22	11.29	11.36
Max Power Current(Imp) [A]	10.32	10.38	10.43	10.50	10.57	10.64
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

## CHARACTERISTICS



## OPERATING CONDITIONS

Maximum System Voltage	1000V/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