JA SOLAR | DEEP BLUE 3.0

Version No. : AUS-EN-20230821A

550W MBB MR Series

- Higher output power
- Lower LCOE
- Less shading and lower resistive loss
- Better mechanical loading tolerance

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

Half-cell Module
JAM72S30 MR/1500V
530-555

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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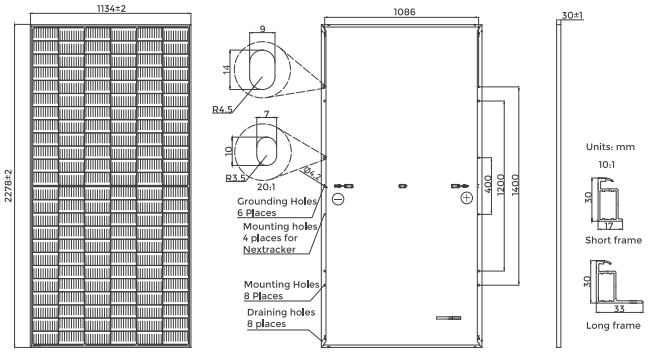
Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.
Shanghai JA Solar Technology Co., Ltd.

530-555 MR Series

JAM72S30



Remark: customized frame color and cable length available upon request

Cell	Mono
Weight	27.3kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm² (IEC), 12 AWG(UL)
No. of cells	144(6x24)
Junction Box	IP68, 3 diodes
Connector	Stäubli MC4-EVO2A/MC4-EVO2 QC Solar QC 4.10-351/QC 4.10-35
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); 800mm(+)/800mm(-)(Leapfrog) Landscape: 1300mm(+)/1300mm(-)
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30-530/MR/1500V	JAM72S30-535/MR/1500V	JAM72S30-540/MR/1500V	JAM72S30-545/MR/1500V	JAM72S30-550/MR/1500V	JAM72S30-555/MR/1500V
Rated Maximum Power(Pmax) [W]	530	535	540	545	550	555
Open Circuit Voltage(Voc) [V]	49.30	49.45	49.60	49.75	49.90	50.02
Maximum Power Voltage(Vmp) [V]	41.31	41.47	41.64	41.80	41.96	42.11
Short Circuit Current(Isc) [A]	13.72	13.79	13.86	13.93	14.00	14.07
Maximum Power Current(Imp) [A]	12.83	12.90	12.97	13.04	13.11	13.18
Module Efficiency [%]	20.5	20.7	20.9	21.1	21.3	21.5
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α_Isc)	+0.045%/℃					
Temperature Coefficient of Voc(β_Voc)	-0.275%/℃					
Temperature Coefficient of Pmax(γ_Pmp)	-0.350%/℃					
STC	Irradiance 1000W/m², cell temperature 25℃, 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 ±3% and Isc ±4%.

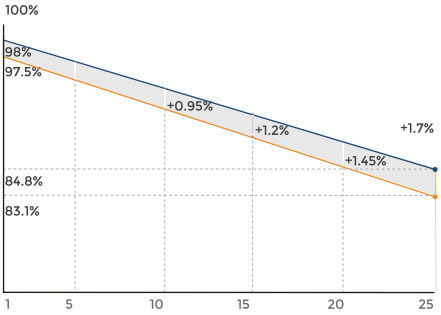
ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM72S30-530/MR/1500V	JAM72S30-535/MR/1500V	JAM72S30-540/MR/1500V	JAM72S30-545/MR/1500V	JAM72S30-550/MR/1500V	JAM72S30-555/MR/1500V
Rated Max Power(Pmax) [W]	401	405	408	412	416	420
Open Circuit Voltage(Voc) [V]	46.18	46.31	46.43	46.55	46.68	46.85
Max Power Voltage(Vmp) [V]	38.57	38.78	38.99	39.20	39.43	39.66
Short Circuit Current(Isc) [A]	11.01	11.05	11.09	11.13	11.17	11.21
Max Power Current(Imp) [A]	10.39	10.43	10.47	10.51	10.55	10.59
NOCT	Irradiance 800W/m², ambient temperature 20℃,wind speed 1m/s, AM1.5G					

*For Nextracker installations, maximum static load please take compatibility approve letter between JA Solar and Nextracker for reference.

SUPERIOR WARRANTY

0.55% Annual Degradation Over 25 years



- New linear power warranty
- Standard module linear power warranty

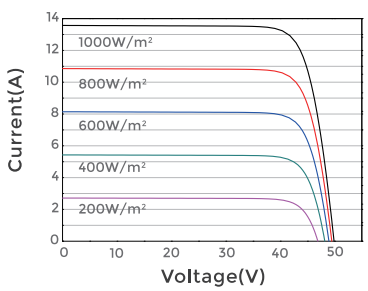
*Subject to the terms and conditions contained in the Limited Warranty Statement. Also, this 15-year limited product warranty is available only for products installed and operating in solar systems under 100kW on rooftops in Australia.ing in solar systems under 100kW on rooftops in Australia.

OPERATING CONDITIONS

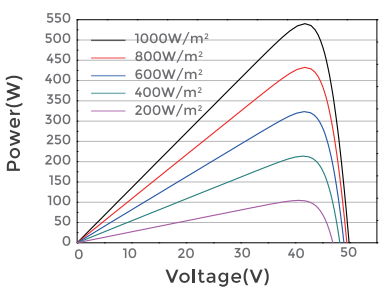
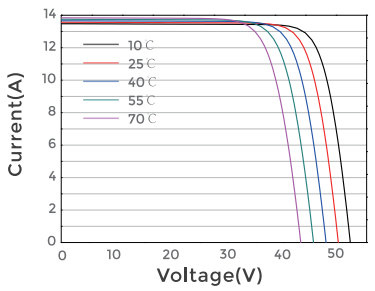
Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load,Front*	3600Pa, 1.5
Maximum Static Load,Back*	1600Pa, 1.5
NOCT	45±2°C
Safety Class	Class Ⅱ
Fire Safety Class	Class C

CHARACTERISTICS

Current-Voltage Curve **JAM72S30-540/MR/1500V**



Power-Voltage Curve **JAM72S30-540/MR/1500V**



Current-Voltage Curve **JAM72S30-540/MR/1500V**