

DEEP BLUE 3.0

Mono

555W MBB Half-cell Module
JAM72S30 530-555/MR Series

Introduction

Assembled with 11BB 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 LCOE



Less shading and lower resistive loss

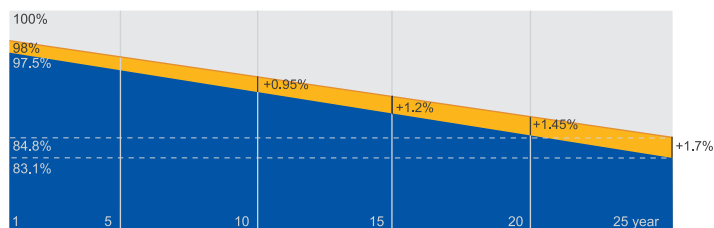


Better mechanical loading tolerance

Superior Warranty

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

0.55% Annual Degradation
Over 25 years



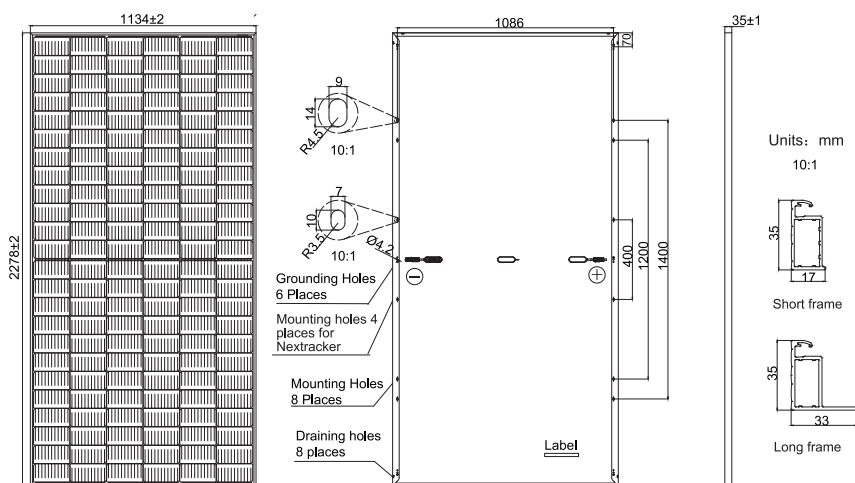
■ New linear power warranty ■ Standard module linear power warranty

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 TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	28.6kg±3%
Dimensions	2278±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10(1000V) QC 4.10-35(1500V)
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1300mm(+)/1300mm(-)
Packaging Configuration	31pcs/Pallet 620pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30 -530/MR	JAM72S30 -535/MR	JAM72S30 -540/MR	JAM72S30 -545/MR	JAM72S30 -550/MR	JAM72S30 -555/MR
Rated Maximum Power(P _{max}) [W]	530	535	540	545	550	555
Open Circuit Voltage(V _{oc}) [V]	49.30	49.45	49.60	49.75	49.90	50.02
Maximum Power Voltage(V _{mp}) [V]	41.31	41.47	41.64	41.80	41.96	42.11
Short Circuit Current(I _{sc}) [A]	13.72	13.79	13.86	13.93	14.00	14.07
Maximum Power Current(I _{mp}) [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 I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.275%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.350%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

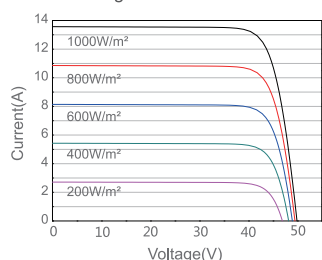
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

ELECTRICAL PARAMETERS AT NOCT

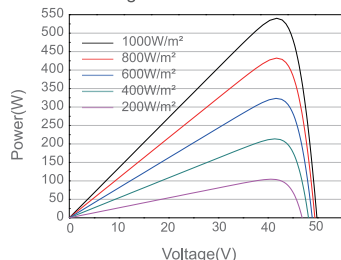
TYPE	JAM72S30 -530/MR	JAM72S30 -535/MR	JAM72S30 -540/MR	JAM72S30 -545/MR	JAM72S30 -550/MR	JAM72S30 -555/MR	OPERATING CONDITIONS
Rated Max Power(P _{max}) [W]	401	405	408	412	416	420	Maximum System Voltage 1000V/1500V DC
Open Circuit Voltage(V _{oc}) [V]	46.18	46.31	46.43	46.55	46.68	46.85	Operating Temperature -40°C~+85°C
Max Power Voltage(V _{mp}) [V]	38.57	38.78	38.99	39.20	39.43	39.66	Maximum Series Fuse Rating 25A
Short Circuit Current(I _{sc}) [A]	11.01	11.05	11.09	11.13	11.17	11.21	Maximum Static Load, Front* 5400Pa(112lb/ft ²) Maximum Static Load, Back* 2400Pa(50lb/ft ²)
Max Power Current(I _{mp}) [A]	10.39	10.43	10.47	10.51	10.55	10.59	NOCT 45±2°C
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G						Safety Class Class II
	*For NexTracker installations, Maximum Static Load, Front is 2000Pa while Maximum Static Load, Back is 2000Pa.						Fire Performance UL Type 1

CHARACTERISTICS

Current-Voltage Curve JAM72S30-540/MR



Power-Voltage Curve JAM72S30-540/MR



Current-Voltage Curve JAM72S30-540/MR

