

DEEP BLUE 3.0

Mono

505W MBB Half-cell Module
JAM66S30 480-505/MR/1500V 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

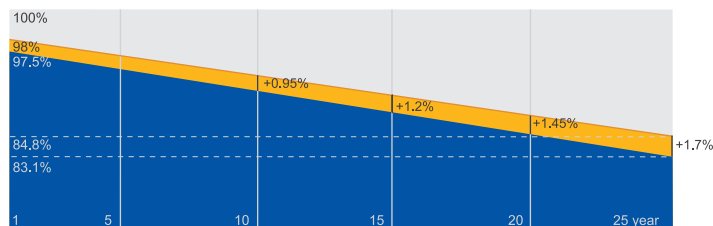


Better mechanical loading tolerance

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

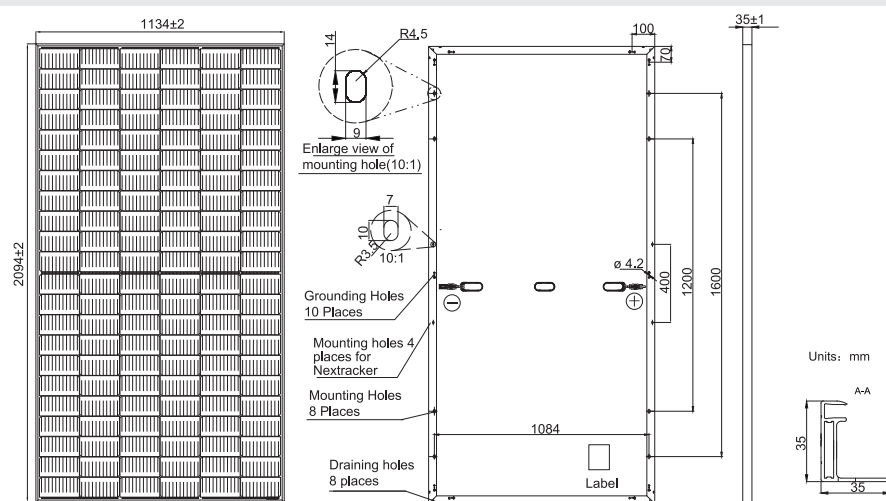
Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems



MECHANICAL DIAGRAMS

SPECIFICATIONS



Remark: customized frame color and cable length available upon request

Cell	Mono
Weight	26.3kg±3%
Dimensions	2094±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	132(6×22)
Junction Box	IP68, 3 diodes
Connector	Genuine MC4-EVO2 QC 4.10-35/45
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM66S30 -480/MR/1500V	JAM66S30 -485/MR/1500V	JAM66S30 -490/MR/1500V	JAM66S30 -495/MR/1500V	JAM66S30 -500/MR/1500V	JAM66S30 -505/MR/1500V
Rated Maximum Power(P _{max}) [W]	480	485	490	495	500	505
Open Circuit Voltage(V _{oc}) [V]	45.07	45.20	45.33	45.46	45.59	45.72
Maximum Power Voltage(V _{mp}) [V]	37.62	37.81	37.99	38.17	38.35	38.53
Short Circuit Current(I _{sc}) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(I _{mp}) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.2	20.4	20.6	20.8	21.1	21.3
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.
Measurement tolerance at STC: P_{max} ±3 %, V_{oc} ±3% and I_{sc} ±4%.

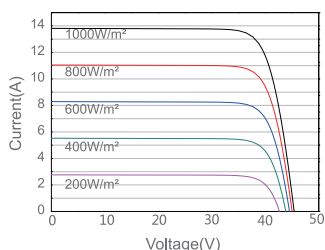
ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM66S30-480 /MR/1500V	JAM66S30-485 /MR/1500V	JAM66S30-490 /MR/1500V	JAM66S30-495 /MR/1500V	JAM66S30-500 /MR/1500V	JAM66S30-505 /MR/1500V	OPERATING CONDITIONS
Rated Max Power(P _{max}) [W]	363	367	370	374	378	382	Maximum System Voltage 1500V DC(IEC)
Open Circuit Voltage(V _{oc}) [V]	42.15	42.30	42.43	42.58	42.72	42.86	Operating Temperature -40°C~+85°C
Max Power Voltage(V _{mp}) [V]	35.54	35.67	35.76	35.84	35.93	36.02	Maximum Series Fuse Rating 25A
Short Circuit Current(I _{sc}) [A]	10.99	11.06	11.13	11.20	11.27	11.34	Maximum Static Load, Front* 3600Pa, 1.5 Maximum Static Load, Back* 1600Pa, 1.5
Max Power Current(I _{mp}) [A]	10.21	10.28	10.36	10.44	10.52	10.60	NOCT 45±2°C
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G						Safety Class Class II
							Fire Performance UL Type 1

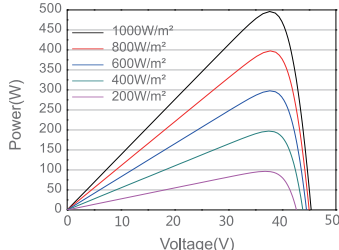
*For NextTracker installations, Maximum Static Load, Front is 2400Pa while Maximum Static Load, Back is 2400Pa.

CHARACTERISTICS

Current-Voltage Curve JAM66S30-495/MR/1500V



Power-Voltage Curve JAM66S30-495/MR/1500V



Current-Voltage Curve JAM66S30-495/MR/1500V

