Harvest the Sunshine

DEEP BLUE 3.0

Mono

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

Introduction

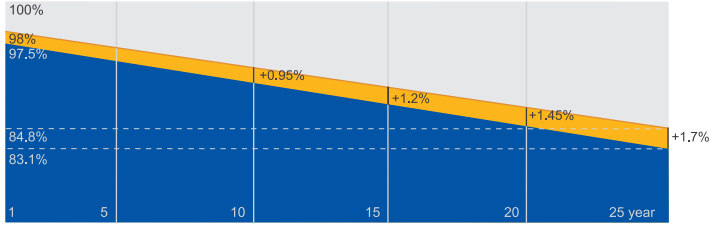
Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

- 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

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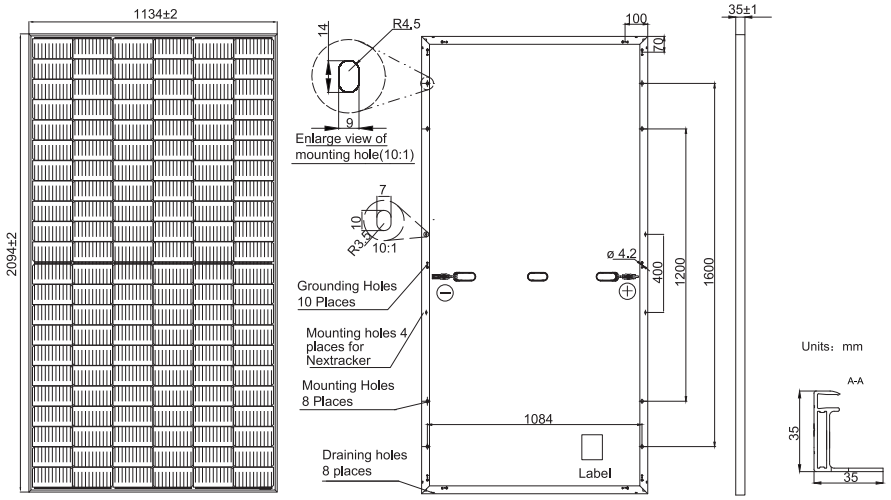
JAM66S30 480-505/MR/1500V Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	26.3kg±3%
Dimensions	2094±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm² (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(Pmax) [W]	480	485	490	495	500	505
Open Circuit Voltage(Voc) [V]	45.07	45.20	45.33	45.46	45.59	45.72
Maximum Power Voltage(Vmp) [V]	37.62	37.81	37.99	38.17	38.35	38.53
Short Circuit Current(Isc) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(Imp) [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 Isc(α_Isc)	+0.045%°C					
Temperature Coefficient of Voc(β_Voc)	-0.275%/°C					
Temperature Coefficient of Pmax(γ_Pmp)	-0.350%/°C					
STC	Irradiance 1000W/m², 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: Pmax ±3 %, Voc ±2% and Isc ±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
Rated Max Power(Pmax) [W]	363	367	370	374	378	382
Open Circuit Voltage(Voc) [V]	42.15	42.30	42.43	42.58	42.72	42.86
Max Power Voltage(Vmp) [V]	35.54	35.67	35.76	35.84	35.93	36.02
Short Circuit Current(Isc) [A]	10.99	11.06	11.13	11.20	11.27	11.34
Max Power Current(Imp) [A]	10.21	10.28	10.36	10.44	10.52	10.60
NOCT	Irradiance 800W/m², ambient temperature 20°C,wind speed 1m/s, AM1.5G					

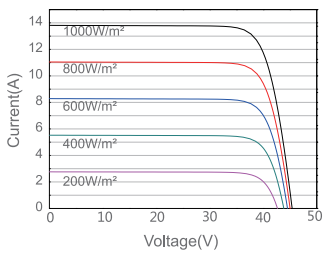
OPERATING CONDITIONS

Maximum System Voltage	1500V DC(IEC)
Operating Temperature	-40℃~+85℃
Maximum Series Fuse Rating	25A
Maximum Static Load,Front* Maximum Static Load,Back*	3600Pa, 1.5 1600Pa, 1.5
NOCT	45±2℃
Safety Class	Class Ⅱ
Fire Performance	UL Type 1

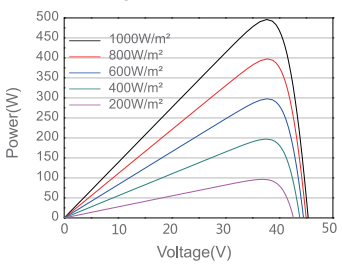
*For NexTracker installations, Maximum Static Load, Front is 2400Pa while Maximum Static Load, Back is 2400Pa.

CHARACTERISTICS

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



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



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