Preliminary

Harvest the Sunshine

Mono

545W MBB Bifacial Mono PERC Half-cell Double Glass Module

JAM72D30 520-545/MB Series

Introduction

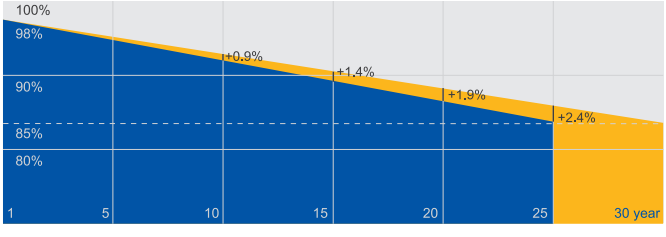
Assembled with 11BB bifacial PERCIUM cells and half-cell configuration, these double glass modules have the capability of converting the incident light from the rear side together with the front side into electricity, providing higher output power, lower temperature coefficient, less shading loss, as well as enhanced tolerance for mechanical loading.

- Higher output power
- More reliable, more stable power generation
- Less shading effect
- Lower temperature coefficient

Superior Warranty

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

0.45% Annual Degradation Over 30 years



Additional Value From 30-Year Warranty JA Standard

Comprehensive Certificates

- IEC 61215, IEC 61730,UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 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

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Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

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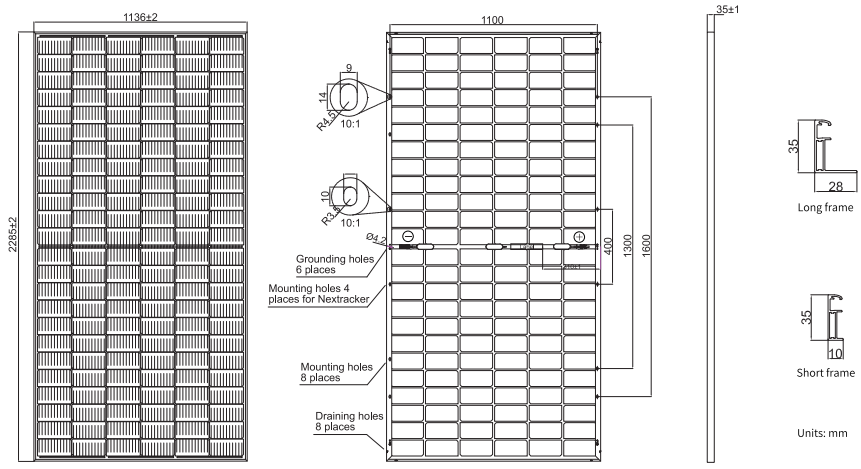
JAM72D30 520-545/MB Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	32.8kg±3%
Dimensions	2285±2mm×1136±2mm×35±1mm
Cable Cross Section Size	4mm² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-35
Cable Length (Including Connector)	Portrait:300mm(+)/400mm(-); Landscape:1200mm(+)/1200mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	30pcs/Pallet, 600pcs/40ft Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D30 -520/MB	JAM72D30 -525/MB	JAM72D30 -530/MB	JAM72D30 -535/MB	JAM72D30 -540/MB	JAM72D30 -545/MB
Rated Maximum Power(Pmax) [W]	520	525	530	535	540	545
Open Circuit Voltage(Voc) [V]	49.39	49.52	49.65	49.78	49.91	50.01
Maximum Power Voltage(Vmp) [V]	41.31	41.55	41.77	42.01	42.23	42.45
Short Circuit Current(Isc) [A]	13.35	13.40	13.45	13.50	13.55	13.61
Maximum Power Current(Imp) [A]	12.59	12.64	12.69	12.74	12.79	12.84
Module Efficiency [%]	20.0	20.2	20.4	20.6	20.8	21.0
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.

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER RANGES (REFRENCE TO 10% SOLAR ILLUMINANCE RATIO)

TYPE	JAM72D30 -520/MB	JAM72D30 -525/MB	JAM72D30 -530/MB	JAM72D30 -535/MB	JAM72D30 -540/MB	JAM72D30 -545/MB
Rated Max Power(Pmax) [W]	556	562	567	572	578	583
Open Circuit Voltage(Voc) [V]	49.41	49.54	49.67	49.80	49.93	50.03
Max Power Voltage(Vmp) [V]	41.30	41.53	41.77	41.99	42.24	42.43
Short Circuit Current(Isc) [A]	14.28	14.34	14.39	14.45	14.50	14.56
Max Power Current(Imp) [A]	13.47	13.52	13.58	13.63	13.69	13.74

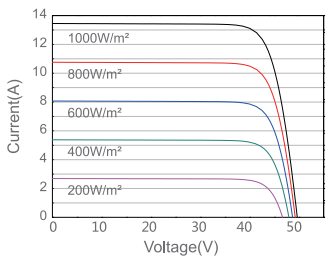
*For NexTracker installations, Maximum Static Load, Front is 1800Pa while Maximum Static Load, Back is 1800Pa.
**Bifaciality=Pmax,rear/Rated Pmax,front

OPERATING CONDITIONS

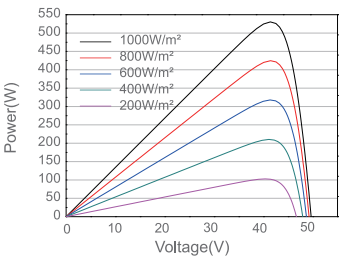
Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load,Front* Maximum Static Load,Back*	5400Pa(112 lb/ft²) 2400Pa(50 lb/ft²)
NOCT	45±2°C
Bifaciality**	70%±10%
Fire Performance	UL Type 29

CHARACTERISTICS

Current-Voltage Curve JAM72D30-530/MB



Power-Voltage Curve JAM72D30-530/MB



Current-Voltage Curve JAM72D30-530/MB