Harvest the Sunshine

DEEP BLUE 3.0

Mono

415W MBB Bifacial Mono PERC Half-cell Double Glass Module

JAM54D30 390-415/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.

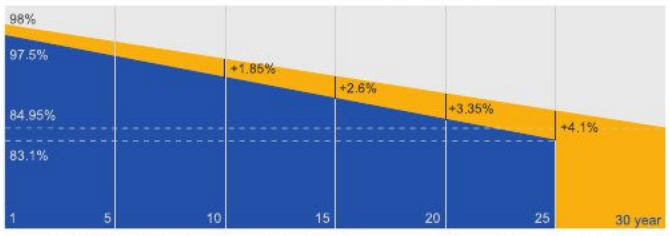


- Higher output power
- More reliable, more stable power generation
- Less shading effect
- Lower temperature coefficient

Superior Warranty

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

0.45% Annual Degradation Over 30 years



- Bifacial double glass module 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 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing

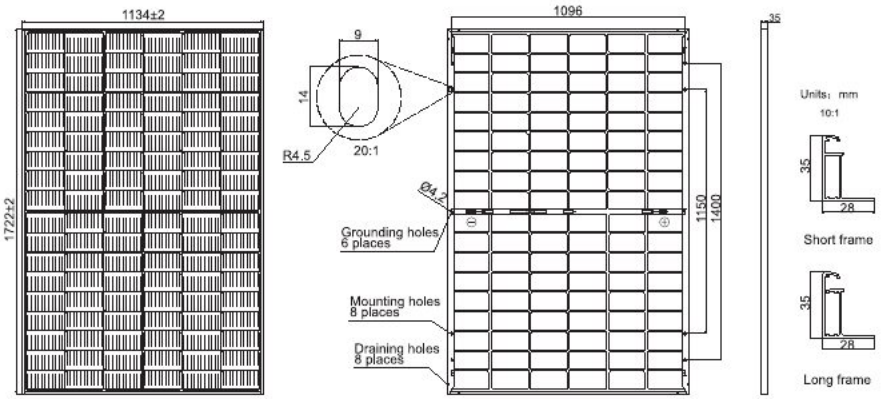
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Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

JAM54D30 390-415/MB Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	26kg
Dimensions	1722±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm² (IEC), 12 AWG(UL)
No. of cells	108(6x18)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait:200mm(+)/300mm(-); Landscape:1100mm(+)/1100mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	31pcs/Pallet 806pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D30 -390/MB	JAM54D30 -395/MB	JAM54D30 -400/MB	JAM54D30 -405/MB	JAM54D30 -410/MB	JAM54D30 -415/MB
Rated Maximum Power(Pmax) [W]	390	395	400	405	410	415
Open Circuit Voltage(Voc) [V]	36.85	36.98	37.07	37.23	37.32	37.45
Maximum Power Voltage(Vmp) [V]	30.64	30.84	31.01	31.21	31.45	31.61
Short Circuit Current(Isc) [A]	13.61	13.70	13.79	13.87	13.95	14.02
Maximum Power Current(Imp) [A]	12.73	12.81	12.90	12.98	13.04	13.13
Module Efficiency [%]	20.0	20.2	20.5	20.7	21.0	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.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM54D30 -390/MB	JAM54D30 -395/MB	JAM54D30 -400/MB	JAM54D30 -405/MB	JAM54D30 -410/MB	JAM54D30 -415/MB
Rated Max Power(Pmax) [W]	417	423	428	433	439	444
Open Circuit Voltage(Voc) [V]	36.93	37.06	37.15	37.31	37.40	37.53
Max Power Voltage(Vmp) [V]	30.64	30.84	31.01	31.20	31.44	31.61
Short Circuit Current(Isc) [A]	14.56	14.66	14.76	14.84	14.93	15.00
Max Power Current(Imp) [A]	13.62	13.71	13.80	13.89	13.95	14.05
Irradiation Ratio(rear/front)	10%					

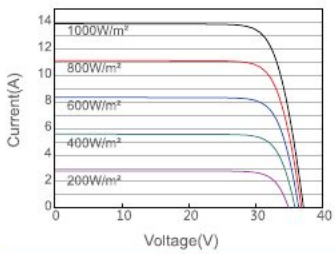
*Bifaciality=Pmax,rear/Rated Pmax,front

OPERATING CONDITIONS

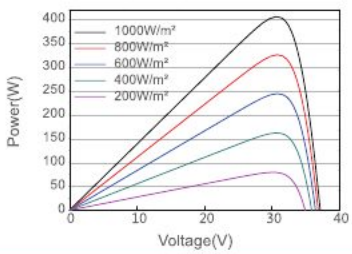
Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load,Front* Maximum Static Load,Back*	5400Pa(112 lb/ft²) 2400Pa(50 lb/ft²)
NOCT	45±2°C
Bifaciality**	70%±10%
Fire Performance	UL Type 29

CHARACTERISTICS

Current-Voltage Curve JAM54D30-405/MB



Power-Voltage Curve JAM54D30-405/MB



Current-Voltage Curve JAM54D30-405/MB

