Harvest the Sunshine

410 Wp

DEEP BLUE 3.0 Pro

Mono

420W MBB Half-cell Module
JAM54S31 395-420/GR Series

Introduction

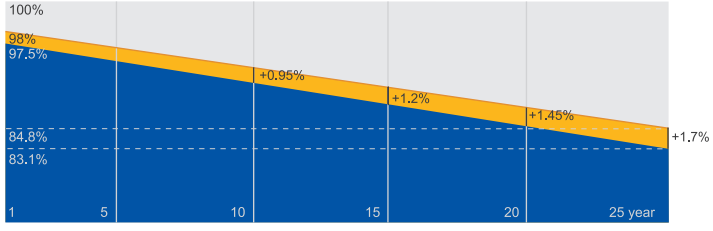
Assembled with 11BB PERC cells and gapless ribbon connection technology, the modules can offer higher output power with improved module efficiency, the reduction of cells gaps brings outstanding module appearance. The half-cell configurature makes less shading effect, lower risk of hot spot, as well as more reliable and stable power generation.

- 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 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.

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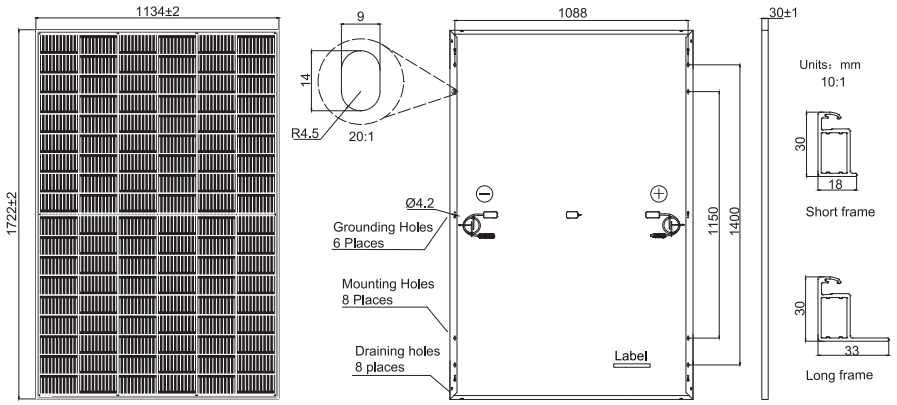
JAM54S31 395-420/GR Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	19.5kg
Dimensions	1722±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm² (IEC), 12 AWG(UL)
No. of cells	108(6x18)
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2/ QC 4.10-35
Cable Length (Including Connector)	Portrait: 200mm(+)/300mm(-); Landscape: 1200mm(+)/1200mm(-)
Front Glass	2.8mm
Packaging Configuration	36pcs/Pallet 936pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54S31 -395GR	JAM54S31 -400/GR	JAM54S31 -405/GR	JAM54S31 -410/GR	JAM54S31 -415/GR	JAM54S31 -420/GR
Rated Maximum Power(Pmax) [W]	395	400	405	410	415	420
Open Circuit Voltage(Voc) [V]	36.98	37.07	37.23	37.32	37.45	37.58
Maximum Power Voltage(Vmp) [V]	30.84	31.01	31.21	31.45	31.61	31.80
Short Circuit Current(Isc) [A]	13.70	13.79	13.87	13.95	14.02	14.10
Maximum Power Current(Imp) [A]	12.81	12.90	12.98	13.04	13.13	13.21
Module Efficiency [%]	20.2	20.5	20.7	21.0	21.3	21.5
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 PARAMETERS AT NOCT

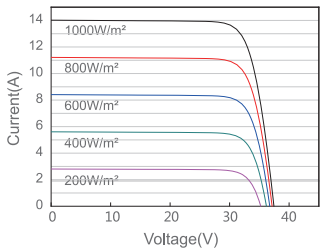
TYPE	JAM54S31 -395/GR	JAM54S31 -400/GR	JAM54S31 -405/GR	JAM54S31 -410/GR	JAM54S31 -415/GR	JAM54S31 -420/GR
Rated Max Power(Pmax) [W]	298	302	306	310	314	318
Open Circuit Voltage(Voc) [V]	34.75	34.88	35.12	35.23	35.37	35.50
Max Power Voltage(Vmp) [V]	29.08	29.26	29.47	29.72	29.89	30.09
Short Circuit Current(Isc) [A]	10.96	11.03	11.10	11.16	11.22	11.29
Max Power Current(Imp) [A]	10.25	10.32	10.38	10.43	10.50	10.57
NOCT	Irradiance 800W/m², ambient temperature 20°C,wind speed 1m/s, AM1.5G					

OPERATING CONDITIONS

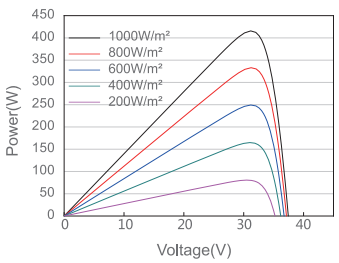
Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse Rating	25A
Maximum Static Load,Front Maximum Static Load,Back	5400Pa(112lb/ft²) 2400Pa(50lb/ft²)
NOCT	45±2℃
Safety Class	Class Ⅱ
Fire Performance	UL Type 1

CHARACTERISTICS

Current-Voltage Curve JAM54S31-415/GR



Power-Voltage Curve JAM54S31-415/GR



Current-Voltage Curve JAM54S31-415/GR