



Less shading and lower resistive loss



Better mechanical loading tolerance

### **Superior Warranty**

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

.55% Annual Degradatior 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



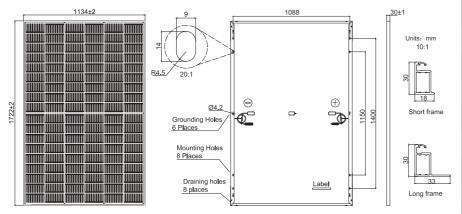








### **MECHANICAL DIAGRAMS**



### **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

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STO	ز
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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 $Isc(\alpha\_Isc)$			+0.045%°C			
Temperature Coefficient of Voc(β_Voc)			-0.275%/°C			
Temperature Coefficient of Pmax(γ_Pmp)			-0.350%/°C			

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	Irradian	ice 800W/m²	, ambient ten	nperature 20°	C,wind speed	d 1m/s, AM1.50	3

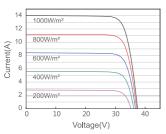
# **OPERATING CONDITIONS**

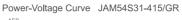
Maximum System Voltag	ge 1000V/1500V DC	
Operating Temperature	-40 °C ~+85 °C	
Maximum Series Fuse R	Rating 25A	
Maximum Static Load,Fr Maximum Static Load,Ba	ront 5400Pa(112lb/ft²) ack 2400Pa(50lb/ft²)	
NOCT	<b>45±2</b> ℃	
Safety Class	Class II	
Fire Performance	UL Type 1	

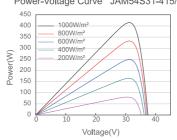
## **CHARACTERISTICS**

STC

Current-Voltage Curve JAM54S31-415/GR







## Current-Voltage Curve JAM54S31-415/GR

