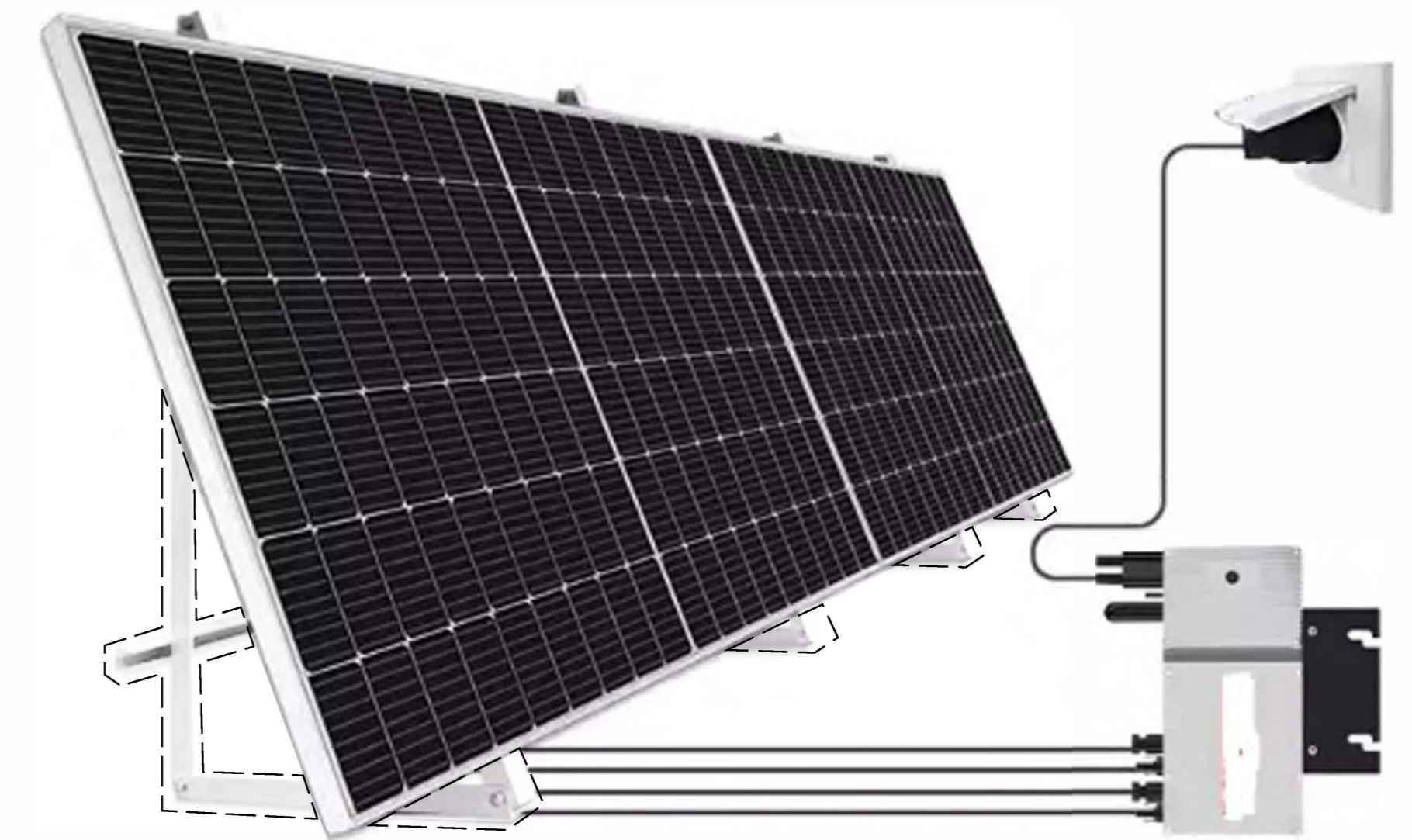


Energie Gewinnung Balkonkraftwerk

Funktionsbeschreibung

Die Stecker-Solaranlage kann direkt an eine Steckdose angeschlossen werden. Der produzierte Solarstrom wird direkt über die Steckdose ins Hausnetz eingespeist und von den Elektrogeräten direkt verbraucht.



System components



PV Panel



Micro Inverter



* Montage Halterung für Balkon



AC End Solarkabel mit Stecker

Die Lösung einer Balkon-Solaranlage umfasst die folgenden Hauptkomponenten:

- Photovoltaik-Panel
- Mikro-wechselrichter
- Wechselstromkabel
- Montagehalterung

*(Montagehalterung ist nicht im Paket enthalten und muss separat bestellt werden)

PV Panel Modules

JA SOLAR



JAM54S31 380 -- 405 / MR

** Other specific modules could provide by demands*

PV Panel Modules (JA Solar)

MECHANICAL DIAGRAMS	SPECIFICATIONS	ELECTRICAL PARAMETERS AT NOCT	OPERATING CONDITIONS																																										
	<p>Cell: Mono</p> <p>Weight: 21.5kg±3%</p> <p>Dimensions: 1722±2mm×1134±2mm×30±1mm</p> <p>Cable Cross Section Size: 4mm² (IEC) , 12 AWG(UL)</p> <p>No. of cells: 108(6x18)</p> <p>Junction Box: IP68, 3 diodes</p> <p>Connector: MC4(1000V), MC4-EVO2(1500V)</p> <p>Cable Length (Including Connector): Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)</p> <p>Packaging Configuration: 36pcs/Pallet, 936pcs/40ft Container</p>	<table border="1"> <thead> <tr> <th>TYPE</th> <th>JAM54S31 -380/MR</th> <th>JAM54S31 -385/MR</th> <th>JAM54S31 -390/MR</th> <th>JAM54S31 -395/MR</th> <th>JAM54S31 -400/MR</th> <th>JAM54S31 -405/MR</th> </tr> </thead> <tbody> <tr> <td>Rated Max Power(Pmax) [W]</td> <td>286</td> <td>290</td> <td>294</td> <td>298</td> <td>302</td> <td>306</td> </tr> <tr> <td>Open Circuit Voltage(Voc) [V]</td> <td>34.36</td> <td>34.49</td> <td>34.62</td> <td>34.75</td> <td>34.88</td> <td>35.12</td> </tr> <tr> <td>Max Power Voltage(Vmp) [V]</td> <td>28.51</td> <td>28.68</td> <td>28.87</td> <td>29.08</td> <td>29.26</td> <td>29.47</td> </tr> <tr> <td>Short Circuit Current(Isc) [A]</td> <td>10.75</td> <td>10.82</td> <td>10.89</td> <td>10.96</td> <td>11.03</td> <td>11.10</td> </tr> <tr> <td>Max Power Current(Imp) [A]</td> <td>10.03</td> <td>10.11</td> <td>10.18</td> <td>10.25</td> <td>10.32</td> <td>10.38</td> </tr> </tbody> </table> <p>NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G</p>	TYPE	JAM54S31 -380/MR	JAM54S31 -385/MR	JAM54S31 -390/MR	JAM54S31 -395/MR	JAM54S31 -400/MR	JAM54S31 -405/MR	Rated Max Power(Pmax) [W]	286	290	294	298	302	306	Open Circuit Voltage(Voc) [V]	34.36	34.49	34.62	34.75	34.88	35.12	Max Power Voltage(Vmp) [V]	28.51	28.68	28.87	29.08	29.26	29.47	Short Circuit Current(Isc) [A]	10.75	10.82	10.89	10.96	11.03	11.10	Max Power Current(Imp) [A]	10.03	10.11	10.18	10.25	10.32	10.38	<p>Maximum System Voltage: 1000V/1500V DC</p> <p>Operating Temperature: -40 C ~+85 C</p> <p>Maximum Series Fuse Rating: 25A</p> <p>Maximum Static Load, Front*: 5400Pa(112lb/ft²) Maximum Static Load, Back*: 2400Pa(50lb/ft²)</p> <p>NOCT: 45±2 C</p> <p>Safety Class: Class II</p> <p>Fire Performance: UL Type 1</p>
TYPE	JAM54S31 -380/MR	JAM54S31 -385/MR	JAM54S31 -390/MR	JAM54S31 -395/MR	JAM54S31 -400/MR	JAM54S31 -405/MR																																							
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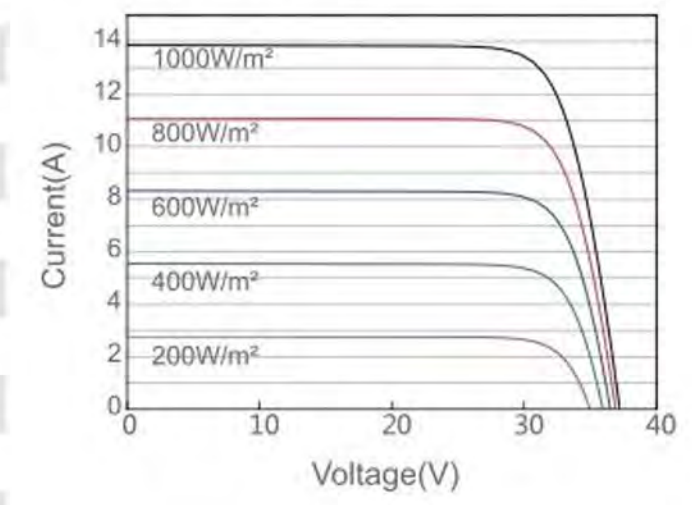
Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC	JAM54S31 -380/MR	JAM54S31 -385/MR	JAM54S31 -390/MR	JAM54S31 -395/MR	JAM54S31 -400/MR	JAM54S31 -405/MR
Rated Maximum Power(Pmax) [W]	380	385	390	395	400	405
Open Circuit Voltage(Voc) [V]	36.58	36.71	36.85	36.98	37.07	37.23
Maximum Power Voltage(Vmp) [V]	30.28	30.46	30.64	30.84	31.01	31.21
Short Circuit Current(Isc) [A]	13.44	13.52	13.61	13.70	13.79	13.87
Maximum Power Current(Imp) [A]	12.55	12.64	12.73	12.81	12.90	12.98
Module Efficiency [%]	19.5	19.7	20.0	20.2	20.5	20.7
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/m ² , cell temperature 25°C, AM1.5G					

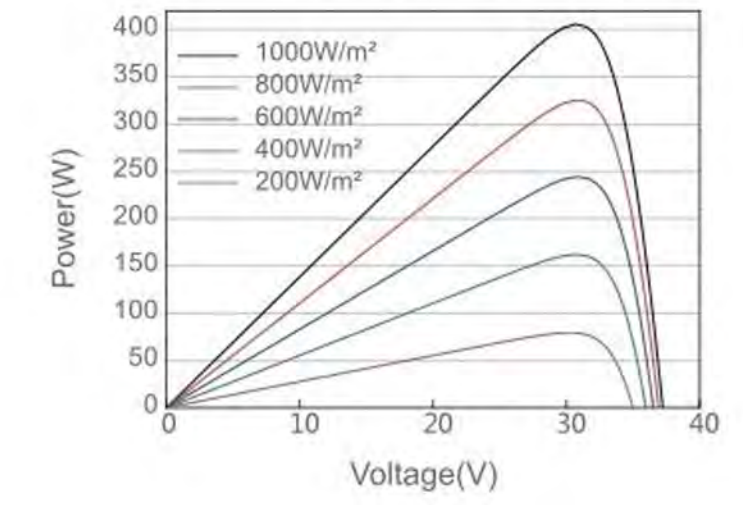
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

CHARACTERISTICS

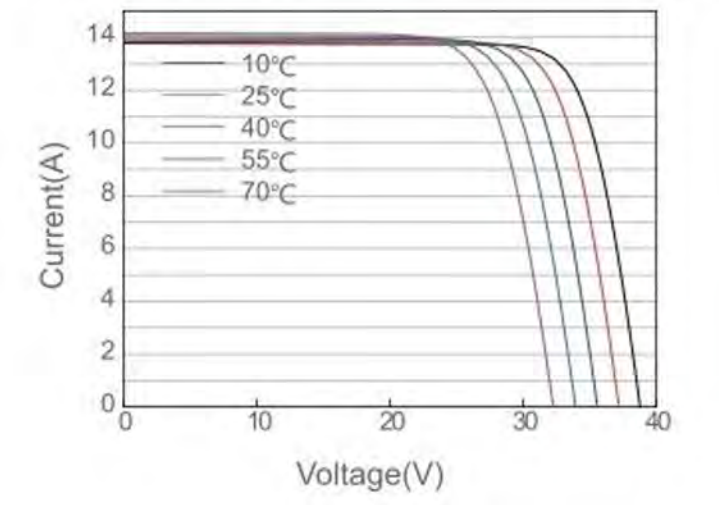
Current-Voltage Curve JAM54S31-405/MR



Power-Voltage Curve JAM54S31-405/MR



Current-Voltage Curve JAM54S31-405/MR



- JA Solar wurde 2005 gegründet. Produkte werden in 135 Länder und Regionen verkauft.
- Das Geschäftsfeld des Unternehmens reicht von Siliziumwafern, -zellen und -modulen bis hin zu kompletten Photovoltaik-Stromversorgungssystemen.
- in der Branche als weltweit führender Hersteller von Hochleistungs-PV-Produkten hoch anerkannt.

Tier 1 Vendor



EZ1 series Wi-Fi Version for DIY

- One microinverter connects to two modules
- Max output power reaching 600/799VA
- Two input channels with independent MPPT
- High Input current to adapter to large modules
- Maximum reliability, IP67
- Built in Wi-Fi and Bluetooth
- Safety protection relay integrated
- Dedicated for balcony and DIY systems

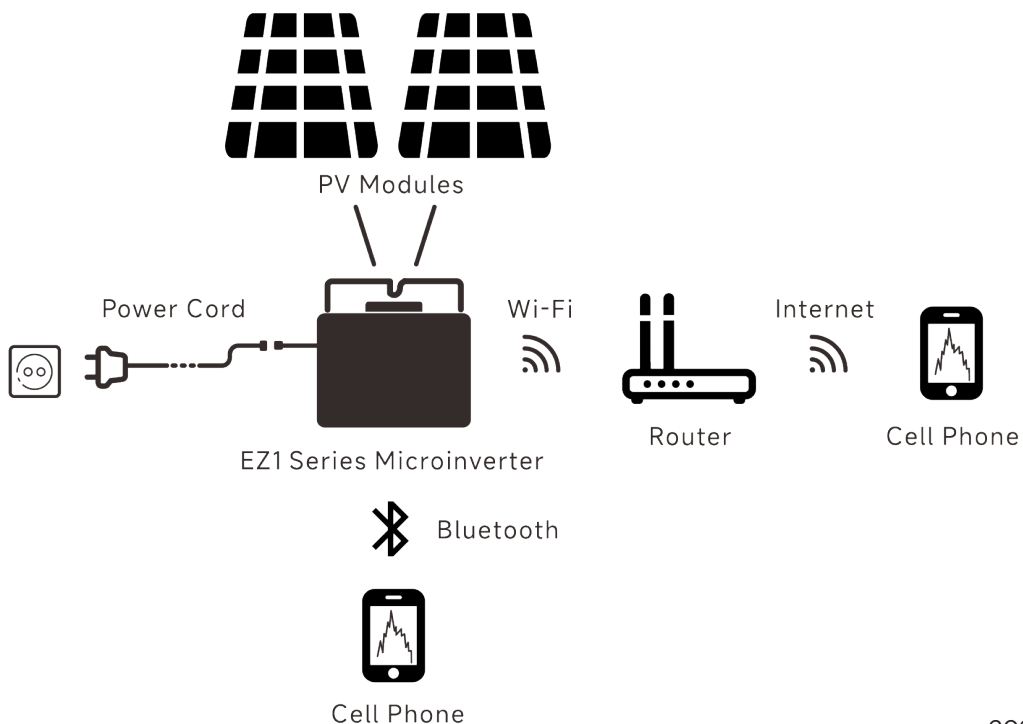
PRODUCT FEATURES

The Wi-Fi version of EZ1 series are APsystems 3rd generation of dual microinverters, they are dedicated designed for balcony and DIY systems, EZ1 series micorinverters have 2 input channels with independent MPPT and high input current and output power to adapt to today's larger power module.

Users could directly connect to the EZ1 series with their cell phones through Bluetooth and get the real-time data of the solar systems. Besides direct connection, EZ1 series could also connect to a router through Wi-Fi and send data to cloud servers for remote monitoring.

Through an AC extension cable provided by APsystems, EZ1 series could be plugged into a socket and start output energy, truly easy and convenient grid connection.

EZ1 series Application Figure



Datasheet | EZ1 Microinverter Series

Model	EZ1-S	EZ1-M
Region	EMEA	

Input Data (DC)

Recommended PV Module Power (STC) Range	255Wp-550Wp+	300Wp-730Wp+
Peak Power Tracking Voltage	28V-45V	
Operating Voltage Range	16V-60V	
Maximum Input Voltage	60V	
Maximum Input Current	18A x 2	20A x 2
Isc PV	22.5A x 2	25A x 2

Output Data (AC)

Maximum Continuous Output Power	600VA	600VA ⁽³⁾ /799VA
Nominal Output Voltage/Range ⁽¹⁾	230V/184V-253V	
Nominal Output Current	2.6A	2.6A ⁽³⁾ /3.5A
Nominal Output Frequency/ Range ⁽¹⁾	50Hz/48Hz-51Hz	
Default Power Factor	0.99	

Efficiency

Peak Efficiency	97.3%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	20mW

Mechanical Data

Operating Ambient Temperature Range ⁽²⁾	- 40 °C to + 65 °C
Storage Temperature Range	- 40 °C to + 85 °C
Dimensions (W x H x D)	263mm x 218mm x 36.5mm
Weight	2.8kg
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	IP67

Power Cord (Optional)

Wire Size	1.5mm ²
Cable Length	5M as default
Plug Type	Schuko

Features

Communication	Built-in Wi-Fi and Bluetooth
Maximum Units Can Be Connected ⁽⁴⁾	2
Isolation Design	High Frequency Transformers, Galvanically Isolated
Energy Management	AP EasyPower APP
Warranty	12 Years Standard

Compliances

Safety, EMC & Grid Compliances	EN 62109-1/-2; EN 61000-1/-2/-3/-4; EN 50549-1; DIN V VDE V 0126-1-1; VFR; UTE C15-712-1; CEI 0-21; UNE 217002; NTS; RD647; VDE-AR-N 4105
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(1) Nominal voltage/frequency range can be extended beyond nominal if required by the utility.

(2) The inverter may enter to power de-grade mode under poor ventilation and heat dissipation installation environment.

(3) The factory setting could be 600VA as default and raise to 800VA after intallation according to the regulation adjustment.

(4) For some countries it is limited to 1 because of the regulations.

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Verwendungsszenarien

Flachdach



Balkon



Die entsprechenden Halterungen finden Sie bei uns im Sortiment , da diese sind nicht im Paket enthalten sind.