APsystems EZ1-LV Single Phase Grid PV Inverter Installation Guide

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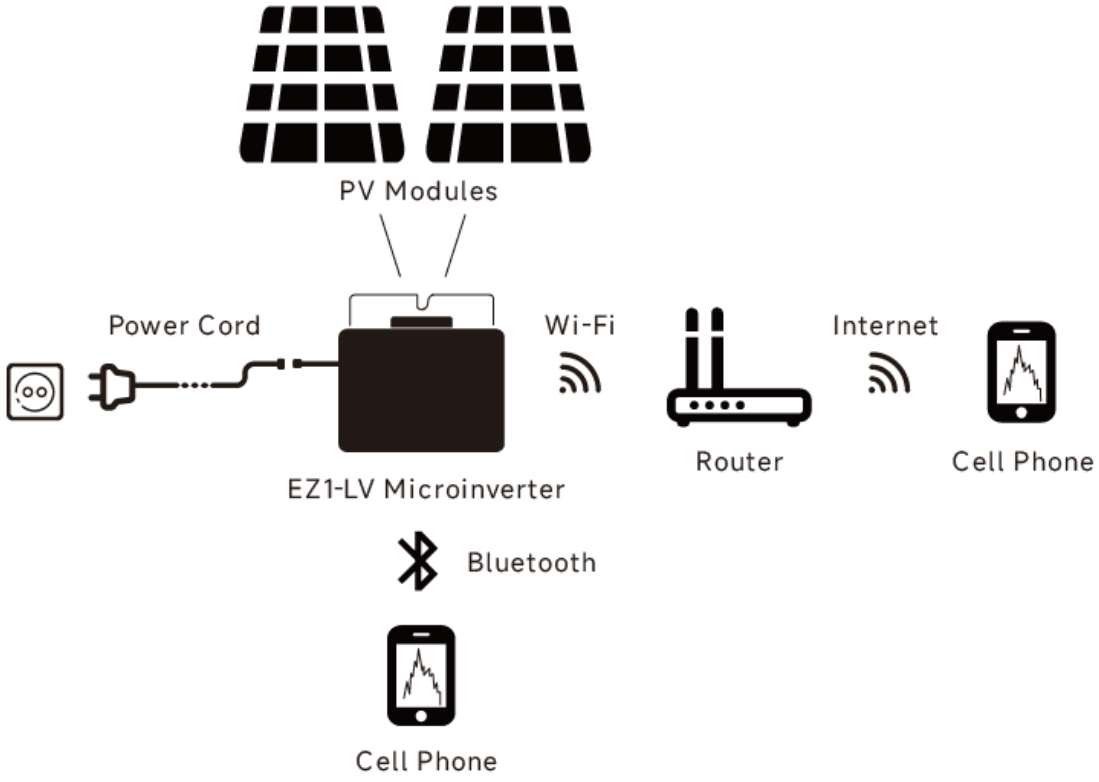
EZ1-LV system installation

The EZ1-LV APsystems Microinverter is used in balcony and DIY systems which comprised of the below key elements: PV modules; Power Cord; EZ1-LV microinverter; Router; Cell phone. EZ1-LV microinverters 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 Wi-Fi version of EZ1-LV with their cell phones through Bluetooth and get the real-time data of the solar systems. Besides direct connection, Wi-Fi version of EZ1-LV could also connect to a router through Wi-Fi and send data to cloud servers for remote monitoring. Through a power cord provided by APsystems, EZ1-LV could be plugged into a socket and start output energy, truly easy and convenient grid connection.

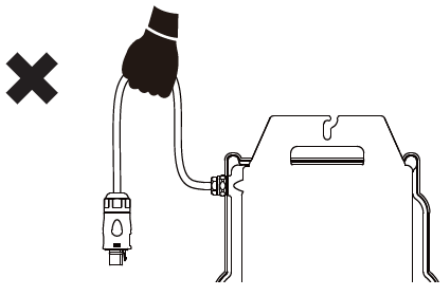


NOTE:

1. If the wireless signal in the area where the microinverter is weak, it is necessary to add a Wi-Fi signal booster at a suitable place between the router and the microinverter.
2. The EZ1-LV product is only suitable for the following DIY application scenarios, such as balcony, garden, garage, and carport. The EZ1-LV is not suitable for the rooftop system application scenario.
3. Under good sunlight conditions, microinverters can operate with the rated output power, in the status of power limiting or peak clipping.
4. The EasyPower App supports monitoring of 4 products from the EZ1-LV.

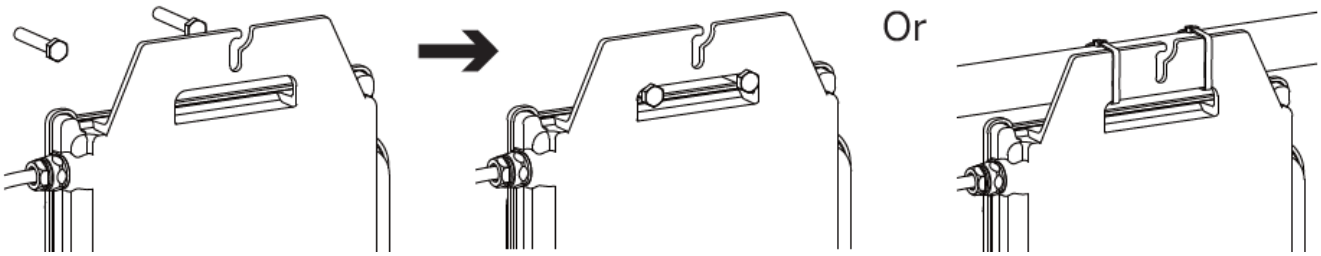
Installation Steps

Step 1: Verify that grid voltage matches microinverter rating



Do NOT carry the microinverter by the AC cable. This may cause the AC cable to partially or fully disconnect from the unit, resulting in no or poor operation.

Step 2: Install the microinverters in proper position

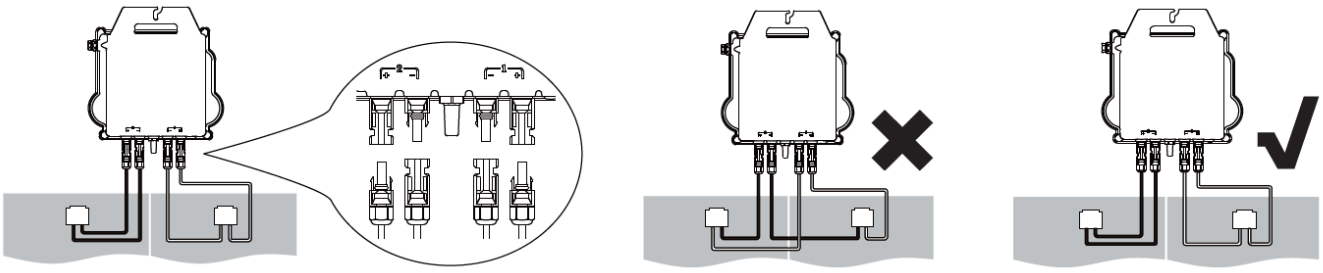


The Microinverter EZ1-LV can be installed on the balcony wall or fixed to the railing using cable ties. Select an appropriate installation method based on your actual scenario to ensure that the EZ1-LV is securely installed.

NOTE:

1. Install the microinverters in proper position to avoid direct exposure to rain, UV or other harmful weather events.
2. Customer using fixing bolts or cable ties, please prepare them by yourself.

Step 3: Connect APsystems microinverters to the PV modules

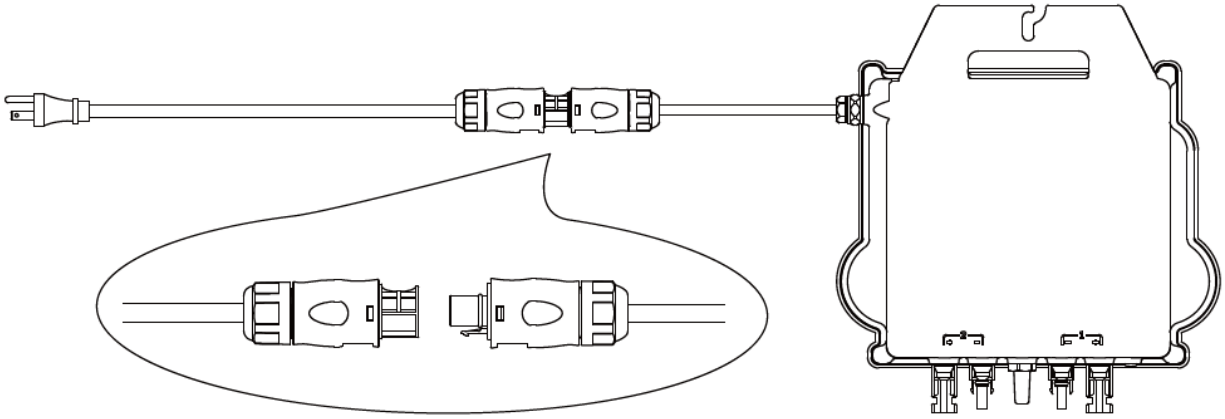


When plugging in the DC cables, the microinverter should immediately blink green ten times. This will happen as soon as the DC cables are plugged in and will show that the microinverter is functioning correctly. This entire check function will start and end within 10 seconds of plugging in the unit, so pay careful attention to these lights when connecting the DC cables.

NOTE:

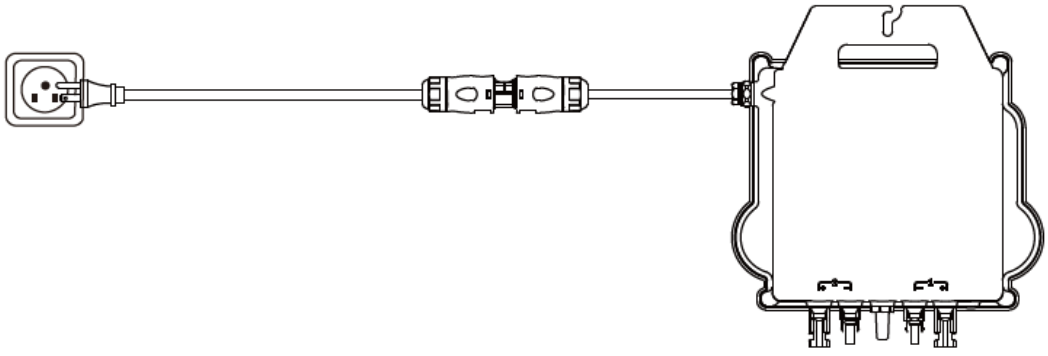
1. Each PV panel must be carefully connected to the same channel. Make sure to not split positive and negative DC cables into two different input channels: microinverter will become damaged and warranty will not apply.
2. Please ensure each DC cable's length within 3 meters.

Step 4: Connect the APsystems microinverter



Insert the microinverter AC connector into the power cord connector.

Step 5: Insert the power cord into the socket



Install APP

Connect the EZ1-LV
AP EasyPower offers two modes “Direct Connect Mode”and “Remote Mode” to monitor the device. Direct Connect Mode: APP connects to Bluetooth of the device, so that users can realize local monitoring and control of the device. Remote Mode: Login account, users can realize remote monitoring and control of the device.

NOTE:

1. In the absence of Wi-Fi, users can monitor and control the device in direct connection mode.
2. You are able to link up to 4 devices to your account, just repeat the linking device operations until linking all your devices

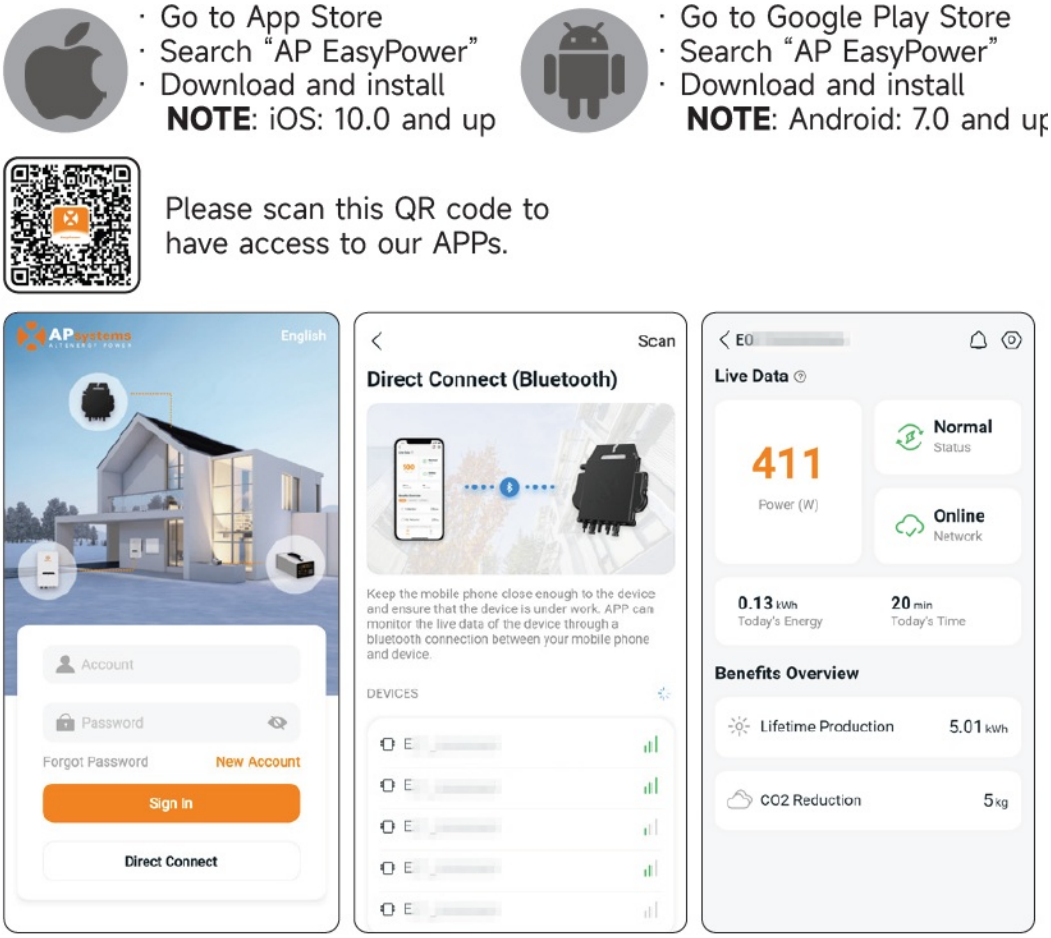
Monitor & Control

On this page, user can visualize:

- **Live Data:** The real-time data of the device in current round, including the power, energy, running time, working status and the cloud status.
- **Working status**
  Normal: The device is working normally. Alarm: The device has alarms and you need to check it.
- **Cloud status**
  Online: The device is connecting the cloud service through the internet. Offline: The device is not connecting the cloud service through the internet, maybe the device is not connected the Wi-Fi or the router is down.

Benefits Overview: The lifetime energy produced by the device and the equivalent CO2 reduction.

- By pressing “alarm icon” to check the alarm information if the device status is alarm.
- By pressing “setting icon” to set the device. The setting page is shown below.
- **NOTE**: For Connection and monitoring operation mode, please refer to the AP EasyPower User Manual.



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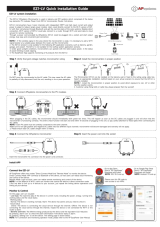	APsystems EZ1-LV Single Phase Grid PV Inverter [pdf] Installation Guide EZ1-LV Single Phase Grid PV Inverter, EZ1-LV, Single Phase Grid PV Inverter, Phase Grid PV Inverter, Grid PV Inverter, PV Inverter, Inverter

References

- APsystems Canada | The global leader in multi-platform MLPE technology - APsystems
- APsystems USA | The global leader in multi-platform MLPE technology
- User Manual