

APsystems EZ1 Local API User Manual



Version List:

Version	Author	Date	Description
V1.0	APsystems	2023/10/23	First Document
V1.1	APsystems	2023/11/07	Add Local API Interface device ON/OFF status



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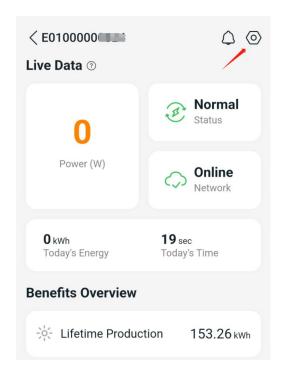
1. Overview

Welcome to EZ1 Local API for developer portal.

EZ1 could switch to Http Server mode, and user cloud request device data by Local API by http.

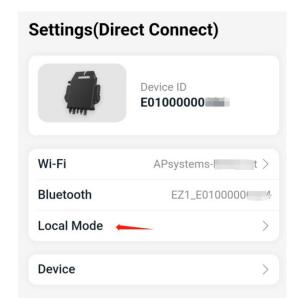
2. How to request Local API

- Use AP EasyPower APP to switch EZ1 Device to Local Mode.
 - 1. Connect to the EZ1 device by Bluetooth
 - 2. Into Setting Page

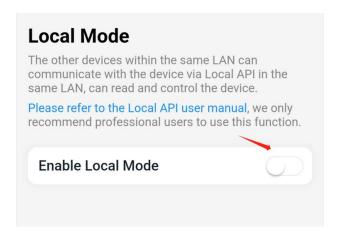


3. Into "Local Mode" Page



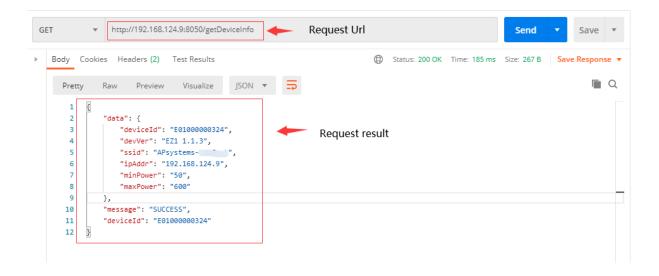


4. Enable "Local Mode"



- After EZ1 device switch to Local Mode, EZ1 device will start up the internal Http Server, the PC, mobile phone or gateway which are in the same LAN cloud request device data by Local API.
- The IP address of Http Server is the EZ1 device's IP, and the Port is 8050. Below is the example to request Local API by Postman:





3. API

3.1 Get EZ1 Device Information

URL

http://{ip}:8050/getDeviceInfo

Method

GET

Description

The request will return the EZ1 Device Information.

```
Code
        Example
                                                               Model Description
                                                               - data(object)
         "data": {
                                                                  * deviceId(string)
                  "deviceId":"E07000000001",
                                                                  * devVer(string)
                 "devVer":" EZ1 1.0.0",
                                                                    Device Version
                  "ssid":"ssidName",
                                                                  * ssid(string)
0
                  "ipAddr":"192.168.1.2",
                                                                   The SSID that device
                  "minPower":"30",
                                                                 connected
                  "maxPower":"800"
                                                                  * ipAddr(string)
               }
                                                                   The IP address of device
                                                                  * minPower(string)
```



```
"message": "SUCCESS",
   "deviceId":"E0700000001"

* maxPower(String)
   The minimum power that device could set.Unit W.
   * maxPower(String)
   The maximum power that device could set .Unit W.
   - message(string)
   SUCCESS or FAILED
   - deviceId(String)
```

3.2 Get Current Output Data of EZ1 Inverter Device

URL

http://{ip}:8050/getOutputData

Method

GET

Description

The request will return the current real -time output data of an EZ1 device .Such as Power and Output Energy.

Code	Example	Model Description
0	{ "data": { "p1": 0, "e1": 0, "te1": 0, "p2": 0, "e2": 0, "te2": 0, }, "message": "SUCCESS", "deviceId":"E07000000001" }	 data (object) * p1(float) Power-Channel1. Unit W. * e1(float) Energy generation after startup - Channel1. Unit kWh. * te1(float) Energy generation lifetime-Channel1. Unit kWh. * p2(float) Power-Channel2. Unit W. * e2(float) Energy generation after startup-Channel2. Unit kWh. * te2(float)



	Energy generation lifetime-Channel2. Unit kWh. - message(string) SUCCESS or FAILED - deviceId(String)
--	--

3.3 Get Max Power of EZ1 Inverter Device

URL

http://{ip}:8050/getMaxPower

Method

GET

Description

This request will return the device max power

Response

Code	Example	Model Description
0	{ "data": { "maxPower": "600" }, "message": "SUCCESS", "deviceId":"E0700000001" }	 data (object) maxPower (string) The Max Power of the device .Unit W. message(string) SUCCESS or FAILED deviceId(String)

3.4 Set Max Power of EZ1 Inverter Device

URL

http://{ip}:8050/setMaxPower?p=600

Method

GET



Description

This request will set the device max power

Parameters

Parameter	Required	Туре	Description
р	Υ	string	The device max power to be set

Response

Code	Example	Model Description
0	<pre>{ "data": { "maxPower": "600" }, "message": "SUCCESS", "deviceId":"E07000000001" }</pre>	- data(object) * MaxPower (string) The Max Power of the device to be set .Unit W. - message(string) SUCCESS or FAILED - deviceId(String)

3.5 Get Alarm Information of EZ1 Inverter Device

URL

http://{ip}:8050/getAlarm

Method

GET

Description

The request will return Alarm Information of EZ1 device.

Code	Example	Model Description
0	{ "data": { "og": "0", "isce1": "0", "isce2": "0", "oe": "0",	- data(object) * og(string) Off grid. 0: normal 1: alarm * oe(string)



Output fault. "message": "SUCCESS", 0: normal "deviceId":"E0700000001" 1: alarm * isce1(string) **DC 1 Short Circuit** Error 0: normal 1: alarm * isce2(string) **DC 2 Short Circuit** Error 0: normal 1: alarm - message(string) **SUCCESS or FAILED** deviceId(String)

Alarm processing suggestions

Off grid: Check whether the AC connection of the inverter is normal.

Output fault: Check whether the AC connection is normal.

isce1 :Check whether DC 1 connection is properly connected, especially that using extension line or swap with the normal channel to confirm the working status.

isce2 :Check whether DC 2 connection is properly connected, especially that using extension line or swap with the normal channel to confirm the working status.

3.6 Get device On/Off status

URL

http://{ip}:8050/getOnOff

Method

GET

Description

The request will return the On / Off of EZ1 device.



When set off to the device, the device will stop outputting power, but the Local API is still working

Response

```
Code Example Model Description

- data(object)
* status(string)
0: On
1: Off
- message": "SUCCESS",
"deviceId":"E07000000001"

- data(object)
* status(string)
0: On
1: Off
- message(string)
SUCCESS or FAILED
- deviceId(String)
```

3.7 Set device On/Off status

URL

http://{ip}:8050/setOnOff?status=1

Method

GET

Description

The request will set On / Off of EZ1 device.

When set off to the device, the device will stop outputting power, but the Local API is still working

Code	Example	Model Description
0	{ "data": { "status": "0" }, "message": "SUCCESS", "deviceId":"E0700000001" }	- data(object) * status(string) 0: On 1: Off - message(string) SUCCESS or FAILED - deviceId(String)