ECP106

Cloud Managed 1U 12A Smart PDU with 6 Metered Outlets (ECP106)

Introduction

This Quick Start Guide is designed to guide you through installing the **PDU 6P 12A 100-120V**, model **ECP106**, including hardware mounting and configuration.

PDU 6P 12A 100-120V

Cloud Managed 1U 12A Smart PDU with 6 Metered Outlets

Model: ECP106

Function

- Real-time power consumption monitoring and alarming per outlet
- Remote switching per outlet
- 1.3 inches display for visualizing power information
- Attempt to reconnect from internet outages automatically
- Local and cloud management with analytic reports
- Bracket ears provide different angle installation

Safety

- 15A circuit breaker from overloading protection
- Fireproof MOV and grounded protection
- FCC, IC, UL1449 certification.

Integration

- RESTFUL API supported
- SNMP v1 2c 3 supported

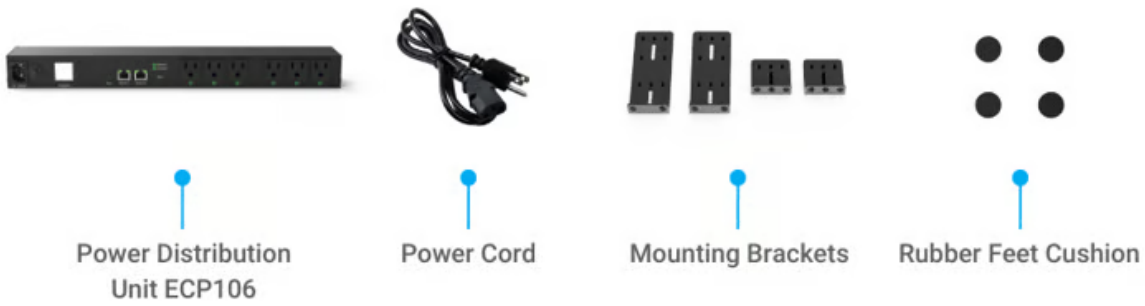
Content Quick Links

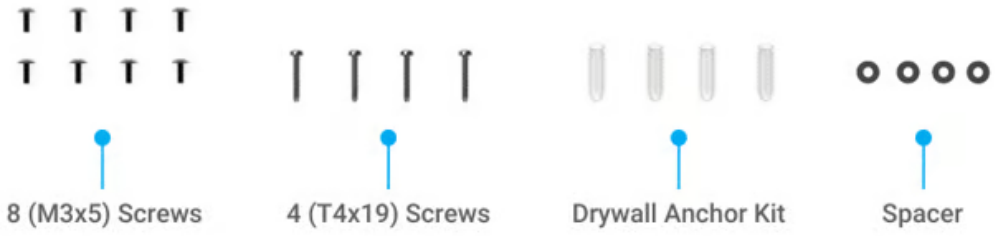
Hardware Overview

Hardware Installation

Management Plane

Package Contents





System Requirements

Web Browser:

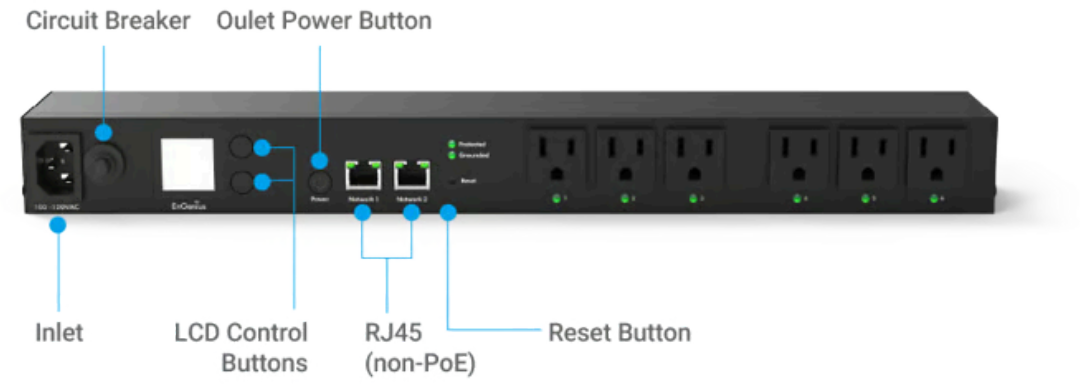
- Google Chrome (105.0.5195.127 or later)
- Microsoft Edge (112.0.1722.48 or later)

Network Requirements

Before you get started, please make sure your network environment is DHCP-enabled. EnGenius PDU is assigned with an IP address dynamically by the DHCP server. You could check the given IP address from PDU's LCD. The IP address is shown under Menu>information.

Hardware Overview

Ports



Reset to default:

1. Press and hold the reset button for at least 15 seconds. Holding it for less than 15 seconds will only trigger a reboot. The system will restart automatically without any noticeable indication.
2. To initiate a factory reset, navigate to the LCD menu and select the "Factory reset" option. The screen will then indicate the resetting process with a progress bar.

LEDs

Location	LED Indicator	LED Color	LED Behavior	Status
Power	Outlet Switch	White	Solid On	Device On
		Off	Light Off (0.5 Sec)	Outlet Function On/Off
LED	Surge Protect	Green	Solid On	Protected
		Off	Light Off	Unprotected
	Grounded	Green	Solid On	Grounded
		Off	Light Off	Ungrounded
	Individual Outlet	Green	Solid On	Enabled
		Off	Light Off	Disabled
Ethernet Port	Left (Link Speed)	Green	Solid On	1000M
		Off	Light Off	100M/10M/No Link
	Right (Status)	Green	Solid On	Link
			Flashing	Transmit or Receive
		Off	Light Off	No Link

Safety Precautions

Read the following before installing or operating the Power Distribution Units (PDU)

- Use only the supplied hardware to attach the mounting brackets.
- Intended to be used in a location having equipotential bonding (such as a telecommunication center, a dedicated computer room
- Installation instructions that require verification of the PROTECTIVE EARTHING connection of the socket-outlet by a SKILLED PERSON
- Do not use extension cords or adapters with this PDU
- Never install a PDU or associated wiring or equipment during a lightning storm
- Ensure that the power cord, plug, and socket are in good condition

Hardware Installation

Place on a Flat Surface in Computer Room

Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75. (Marking or Instruction)
The PDU can be secured using the screws and rack ears included in the accessory kit

Peut être installé dans des salles de matériel de traitement de l'information conformément à l'article 645 du National Electrical Code et à la NFPA 75 (Marking or Instruction)

Step 1: Attach the **Rubber Footpads** to the bottom corners of the PDU. The **Rubber Footpads** help secure the PDU and protect it from vibration and shock when stacked.



Use Provided 8(M3 ×5) Bracket Mounting Screws

Step 2: Use (M3 ×5) screws to attach the bracket to both sides of the device. This will allow you to secure the PDU to the flat surface.



Use Provided 8(M3 ×5) Bracket Mounting Screws

Step 3: Attach the bracket with 4(T4×19) to secure and position the PDU firmly to the flat surface.



Recommend using 4(T4×19) screws along with washers for securing.

Rack Mount

Securely attach the device with rack ears onto the rack using screws. Make sure it is securely attached and not wobbling.

(Due to different rack specifications, we have not included rack mounting screws. We recommend using M5 × 12 screws along with washers for securing.)



Recommend using M5 × 12 screws along with washers for securing.

Power On Device

Connect the **Power cord** to the front of the PDU, and then plug it into the power outlet.



Management Plane

EnGenius Cloud To-Go provides flexibility to manage your devices based on your network planning and deployment.

Option A: **Cloud Management**

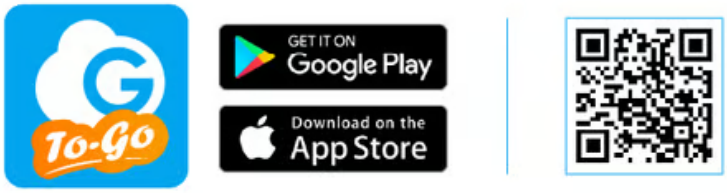
Option B: **Standalone Configuration**

Cloud Management

Manage and monitor the PDU through the **EnGenius Cloud To-Go** with a mobile app or through the web portal.

EnGenius Cloud To-Go (iOS/Android)

⬇️ Download the Cloud To-Go mobile app here ↗



Standalone Configuration

You can locate the computer, connect to the same network (subnet) as the PDU and use the web browser to access the device's local web GUI page for configurations whenever the device is in **Standalone mode.**

Option A: Cloud Management

Step 1: Connecting to Ethernet

Connect the Ethernet cable from the EnGenius Switch directly to the DHCP-enabled network and make sure the PDU can reach the Internet.

Step2: Register Device

You can register the device either by **Cloud To-Go mobile app** or the **EnGenius Cloud platform**.

Cloud To-Go Mobile App

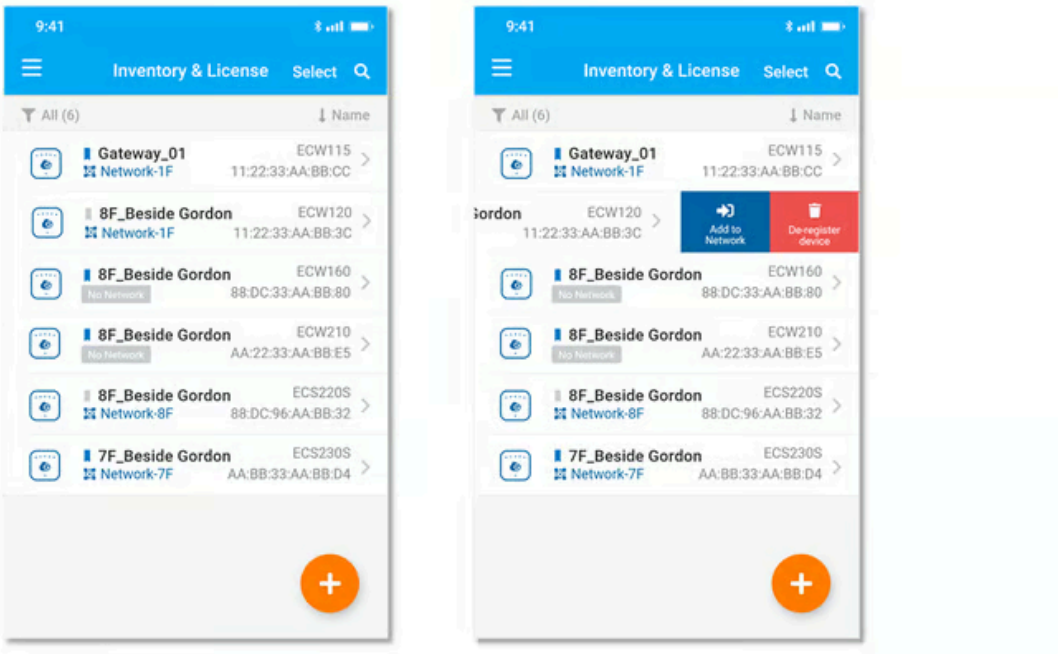
1. Open and log in to the **EnGenius Cloud To-Go** mobile app.
2. Scan the QR code on the back of the device via the app.



Scan to Register

3. If the camera successfully scans a QR code, the app will display the Device Information. You could tap "**Register**" to complete the Registration.

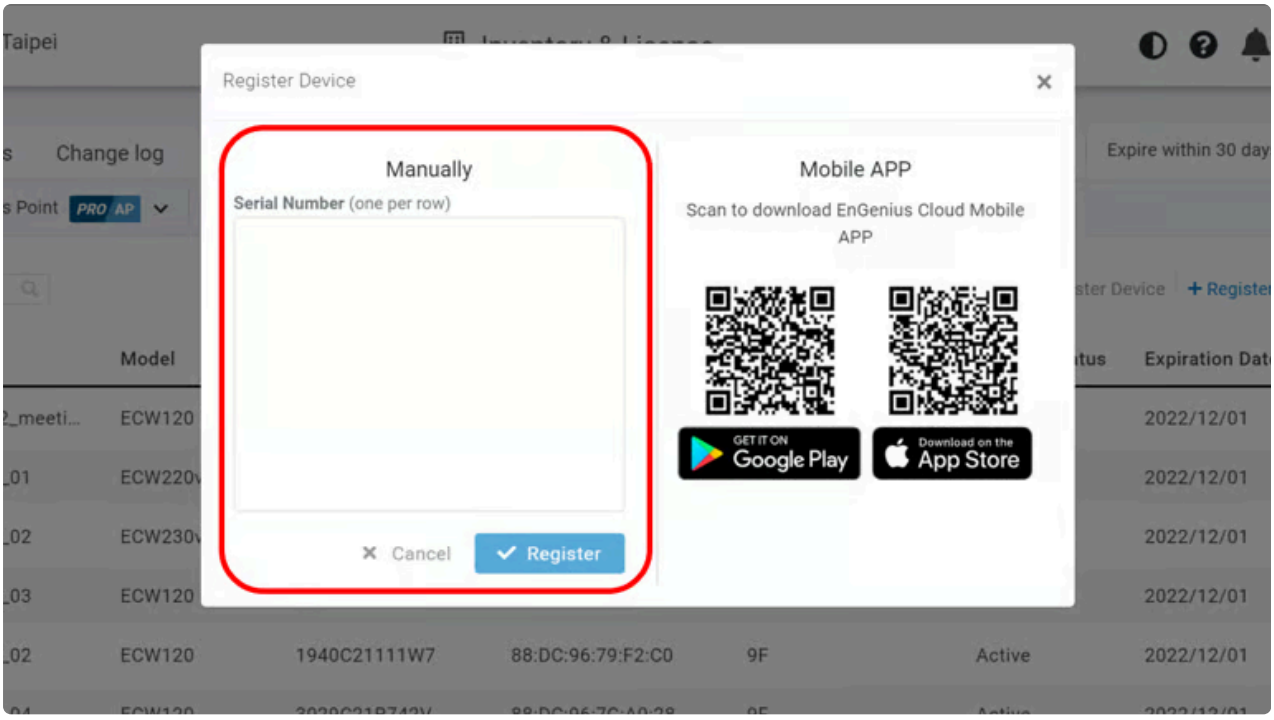
4. Registered devices will be shown on the ***Inventory & License*** page. Upon sliding left the device, you can click "**Add to Network**" to add the device to your designated Network.



Network: Management domain shared same configurations within EnGenius Cloud.

EnGenius Cloud Platform

1. Log into the **EnGenius Cloud Platform**: https://cloud.engenius.ai/.
2. Go to the ***home > Inventory*** page and click "**Register Device**".
3. Enter the **Serial Number** of the device(s) for device registration. Please refer to "User Manual-Registering Devices to Organization".



Register Device

4. Select the registered device and click "**Assign to Network**" to add the device to your designated Network.

> **Network**: Management domain shared same configurations within EnGenius Cloud.

Troubleshooting

If your PDU device cannot be managed by the EnGenius Cloud Platform, there might be a problem with connecting to EnGenius Cloud.

To troubleshoot the connection issue, you may log in to the **PDU Local Web** (optionB)page:

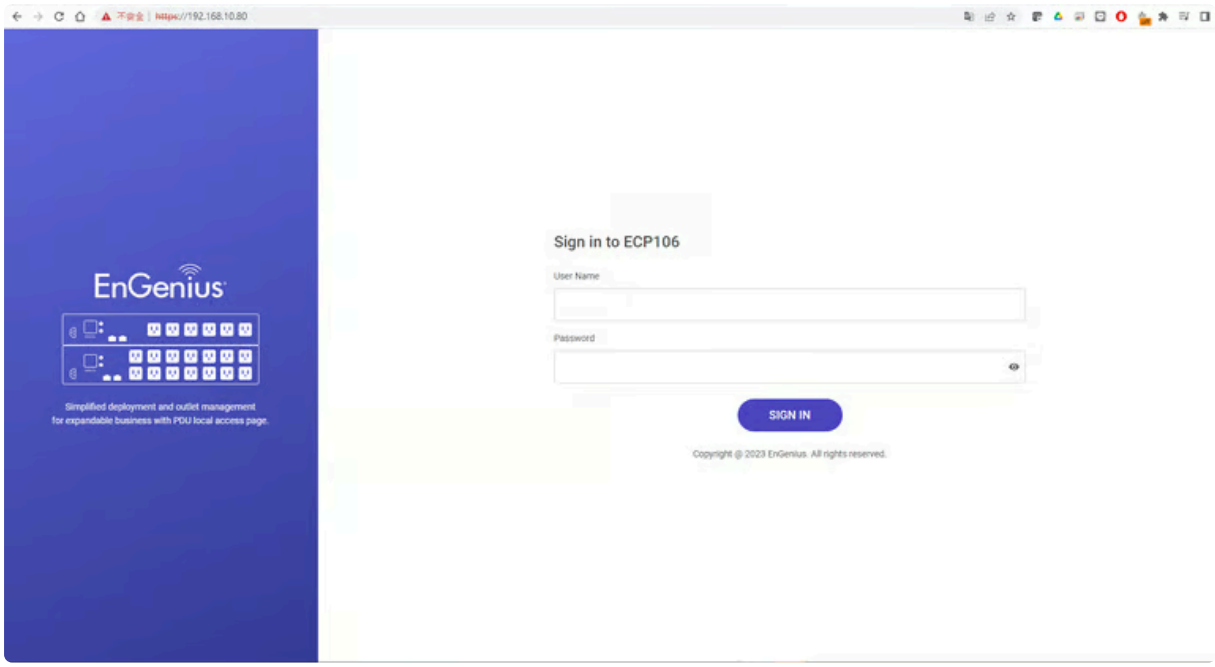
1. Make sure that your host system has same layer-2 network as the PDU. By default, the computer should get the IP address in this segment 192.168.10.x.
2. Under your web browser, enter the URL: **http://192.168.10.80** to access the PDU's local status page web interface.
3. You can review the device status after logging into the PDU with the default admin account/password (admin/admin).

4. Check the information on the **Device Status** and take action if necessary.

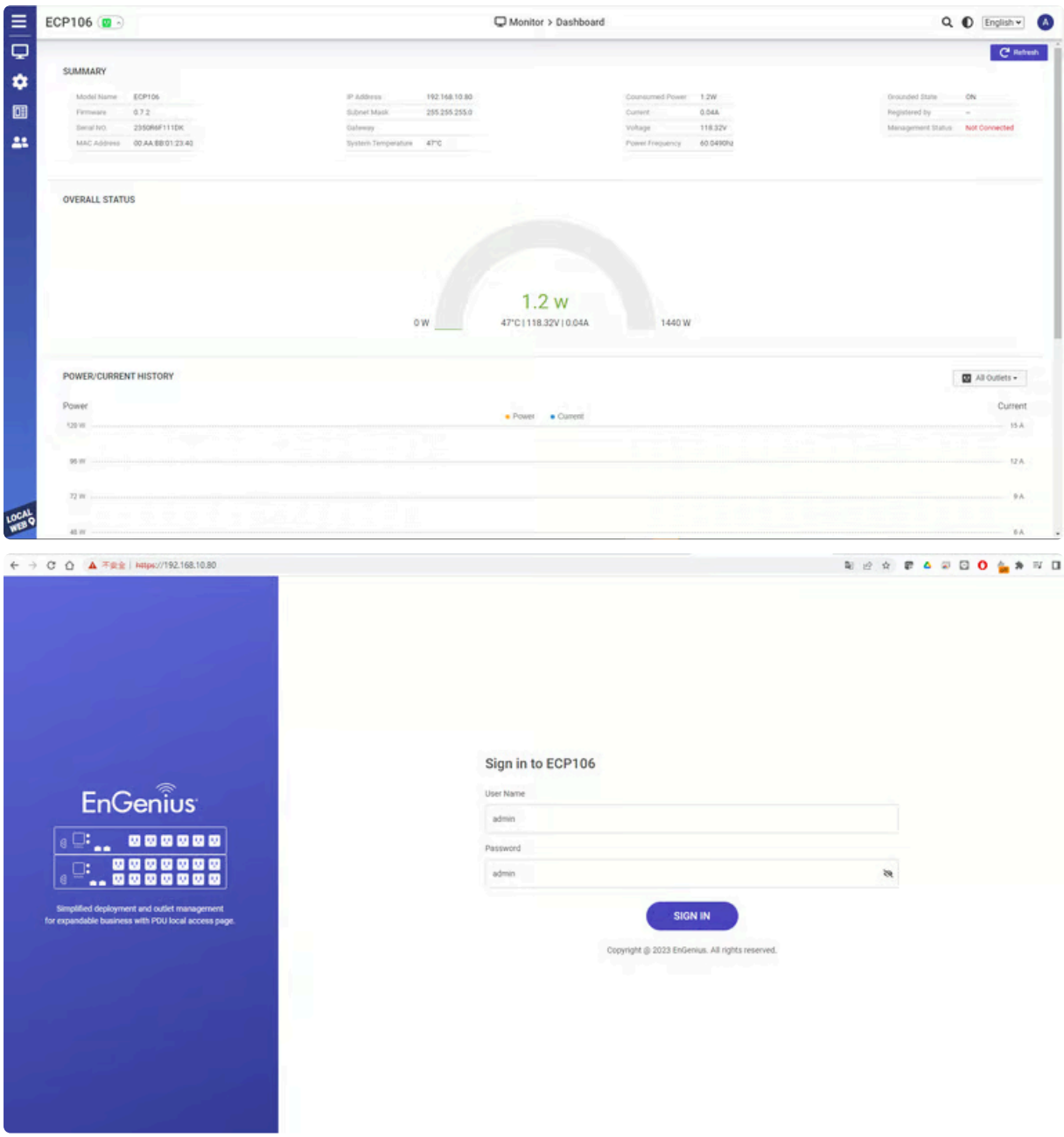
Option B : Standalone Configuration

Step 1: Access to Local Web

1. Connect your computer to the switch and ensure its IP address is in the same subnet.
2. Launch your web browser and enter the URL: **http://192.168.10.80** to access the PDU's local web GUI.

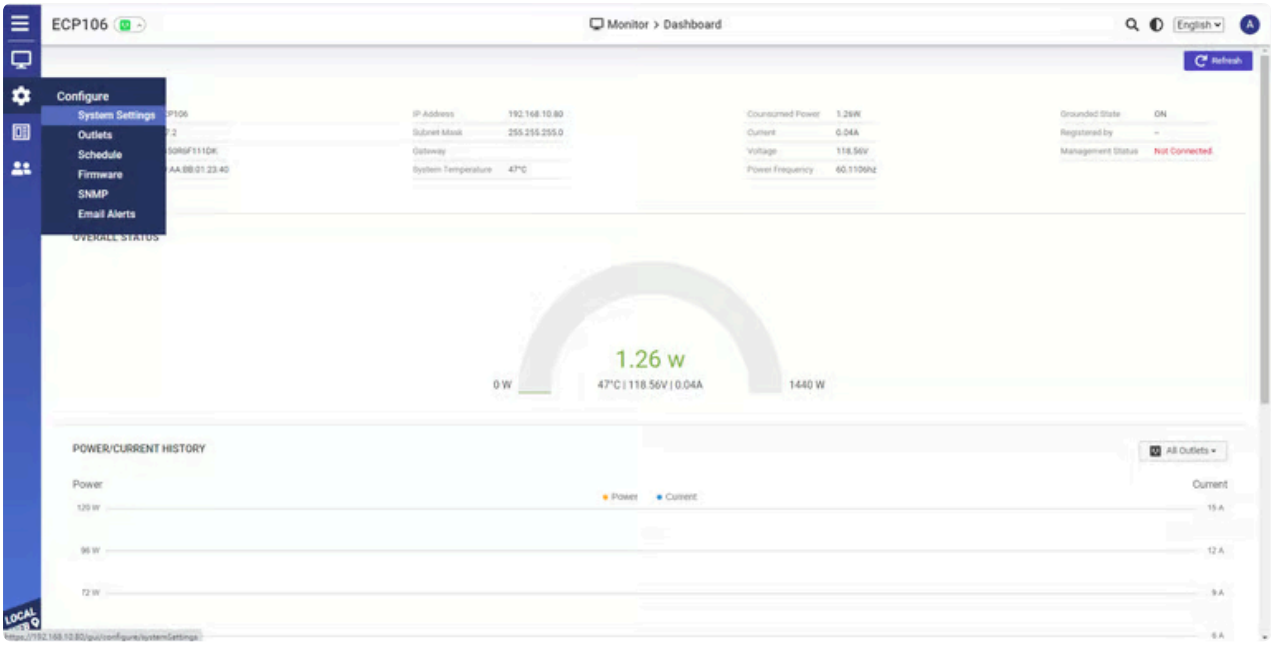


3. Use the default login credential (ID/PWD: **admin/admin**) to log in to the PDU's local web page.



Step2: Configure and Manage the Device

After logging in to the device's local web page, navigate to the left-side menu to configure and manage the PDU accordingly.


ECP106
Monitor > Dashboard
English
Refresh
Configure
System Settings
Outlets
Schedule
Firmware
SNMP
Email Alerts
IP Address
192.168.10.80
Subnet Mask
255.255.255.0
Gateway
System Temperature
47°C
Consumed Power
1.26W
Current
0.04A
Voltage
118.56V
Power Frequency
60.1106Hz
Grounded State
ON
Registered by
Management Status
Not Connected
OVERALL STATUS
1.26 w
0 W
47°C | 118.56V | 0.04A
1440 W
POWER/CURRENT HISTORY
All Outlets
Power
Current
Power
Current
120 W
96 W
72 W
15 A
12 A
9 A
6 A
LOCAL

Appendix

Technical Support

Country of Purchase	Service Center	Service Information
North America	Los Angeles, USA	cloud.engenius.ai support@engeniustech.com Local: (+1) 714 432 8668
North America	Canada	cloud.engenius.ai support@engeniustech.com Local: (+1) 905 940 8181
Europe	Netherlands	eusupport@engeniustech.com Local: (+31) 40 8200 887
Asia / Oceania / Africa / CIS / Middle East	Singapore	techsupport-sg@engeniustech.com Local: (+65) 6227 1088
Taiwan	Taiwan, R.O.C	support@engeniustech.com.tw Local: (+886) 933 250 628
Japan	Tokyo, Japan	jp.support@engenius.ai Local: (+81) 3 6809 6608
India	Hyderabad, India	indiasupport@engenuistech.com Ph: +91 76740 47729

Compliance

FCC

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operations.

> **FCC WARNING!**
>
> Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
>
> **AVERTISSEMENT DU FCC!**
>
> Toute modification ou altération non expressément approuvée par la partie responsable de la conformité pourrait invalider l'autorité de l'utilisateur pour faire fonctionner cet équipement.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

UL

This product conforms to the requirements of the following surge protection devices (SPDs) standard

- UL 1449 edition5

This standard outlines the minimum safety requirements and performance criteria for SPDs, including their ability to withstand certain surge currents and maintain a safe level of protection.

Products that comply with UL1449 edition 5 have undergone extensive testing to ensure their effectiveness in protecting against power surges and are commonly used in a variety of settings, including residential, commercial, and industrial applications. As an official industry standard, UL1449 edition 5 provides a benchmark for product quality and safety in the field of surge protection.

IEC

This product conforms to the requirements of the following IEC standard

- IEC 61000-4-2 level2
- IEC 61000-4-5

IC

The following information applies if you use the product within Canada.

Industry Canada ICES Statement:

- ICES-003 (Issue 7)

VCCI

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。
VCCI－A



Declaration of Conformity

Hereby, EnGenius Networks declare that this product is in compliance with:

- Directives 2004/108 EC (EMC); 2014/30/EU (EMC); 2006/95/EC (LVD); 2014/35/EU (LVD)
- RoHS Directive 2015/863
- WEEE Directive 2012/19/EU
- REACH Regulation

Disclaimer/ Note

- Maximum data rates are based on the IEEE standards. Actual throughput and range may vary depending on many factors including environmental conditions, the distance between devices, radio interference in the operating environment, and the mix of devices in the network.
- Features and specifications are subject to change without notice.
- This device complies with Part 15 of the FCC Rules.
- Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- Trademarks and registered trademarks are the property of their respective owners. For the United States of America: Copyright © 2023 EnGenius Technologies, Inc. All rights reserved.

Warning

Class I Equipment. This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.

"CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions."

CAUTION:

- Lithium Battery Caution: Danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type. Dispose batteries according to manufac- turer's instructions.
- Disposal of a BATTERY into fire or a hot oven, or mechanically crushing or cutting of a BATTERY, that can result in an EXPLOSION
- Leaving a BATTERY in an extremely high temperature surrounding environment that can result in an EXPLOSION or the leakage of flammable liquid or gas
- A BATTERY subjected to extremely low air pressure that may result in an EXPLOSION or the leakage of flammable liquid or gas.

WARNING: There is danger of explosion if the battery is mishandled or incorrectly replaced. Replace only with the same type of battery. Do not disassemble it or attempt to recharge it outside the system. Do not crush, puncture, dispose of in fire, short the external contacts, or expose to water or the liquids. Dispose of the battery in accordance with local regulations and instructions from your service provider.

Advertissment Équipement de classe I. Ce matériel doit être relié à la terre. La fiche d’alimentation doit être raccordée à une prise de terre correctement câblée. Une prise de courant mal câblée pourrait induire des tensions dangereuses sur des parties métalliques accessibles.

ATTENTION: Risque d’explosion si la batterie est remplacée par un type incorrect. Mettre au rebus les batteries usagées selon les instructions.“

MISE EN GARDE:

- Pile au lithium Attention: Risque d'explosion si la pile n'est pas remplacée correctement. Remplacez uniquement par un type identique ou équivalent. Jetez les piles conformément aux instructions du fabricant.
- Mise au rebut d'une BATTERIE dans un feu ou un four chaud, ou écrasement ou découpage mécanique d'une BATTERIE, pouvant entraîner une EXPLOSION
- Laisser une BATTERIE dans un environnement extrêmement chaud pouvant entraîner une EXPLOSION ou une fuite de liquide ou de gaz inflammable
- UNE BATTERIE soumise à une pression d'air extrêmement basse pouvant entraîner une EXPLOSION ou une fuite de liquide ou de gaz inflammable.