



PDU Power Distribution Unit. User Manual

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PDU Power Distribution Unit



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Introduction

The PDU is an Internet ready device designed and is equipped with an intelligent current meter (True RMS) that will indicate the total power consumption of a power strip.

The PDU offers an easy set up and user-friendly communication software. This software provides the function that assistant manager to remotely monitor the multiple PDU power consumption to realize the total current power consumption and utilization for the enterprises.

Features:

- Built-in web server, manager can real time to monitoring the current consumption of the power strip.
- Build-in true RMS current meter.
- Setup easily, meter can read the I P address directly.
- Home page support SSL.
- Provide audible alarm when the power consumption over the threshold of warning and overload.
- Send the email and traps when the power consumption exceed the trigger value of warning or overload to the PDU.
- Provide utility, it can monitor a large mount of PDU at the same time.
- Support the SNMP and provide MI B for the PDU to be monitored by NMS.
- Provide per outlet power protection by the circuit breaker.
- Real time to control outlets of PDU.
- Indicate outlets status with LED.
- Support power on sequence.
- Option accessory can support temperature and humidity detection.

PDU Package

The standard PDU package contains a Power Distribution Unit with supporting hardware and software. The components of the package are:

- Power Distribution Unit.
- Rack mount Brackets.
- CD-ROM, it contains:
 - User Manual.
 - PDU Software.
 - MI B: Management Information Base for Network. (PDUMI B.mib)
 - Adobe Acrobat Reader.

Function

Interface

Single current bank



Functions	Description
Ethernet	RJ45 port for network communication port.
Audible Alarm	Warning- 1 beep in 1 second. Overload- 3 beeps in 1 second. Note: The audible alarm will keep beeping until the current gets back to normal and the current is lower than the threshold to 0.5 am ps.
Function Button	<ul style="list-style-type: none"> • Press and release to turn off the warning beeping. The overload beeping can not be cancelled. • Press and hold the key after 2 beeping; it can let the meter to show up the I P address • Press and hold the key after 4 beeping; it can change the way to get I P by DHCP or fixed I P. • Press and hold the key after 6 beeping; it can reset PDU back to default setting.
Meter	3 digits to display current and I P Address.
ID	The identification of power bank or PDU.
LED Indicator	SSL (yellow): Light on means web access is protected by SSL. DHCP (Green): Light on means PDU gets I P address by DHCP. PDU (Green): Indicate each output power status. Status (Red): Indicate each circuit status. (by model
ENV	RJ11 for ENV probe attached.
Circuit Breaker	Overload power protection.

Installation

This section will provide a quick instruction to install the PDU.

Rack Mount Instructions

A) Elevated Operating Ambient – If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature specified by the manufacturer.

B) Reduced Air Flow – Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

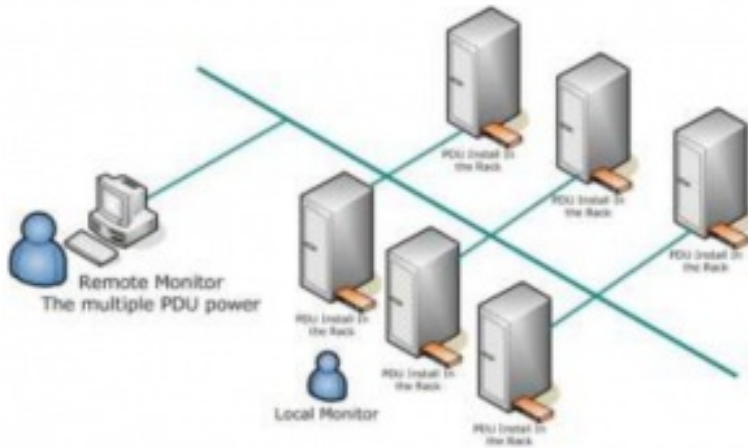
C) Mechanical Loading – Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

D) Circuit Overloading – Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate

consideration of equipment nameplate ratings should be used when addressing this concern.

E) Reliable Earthing – Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips)."

Diagram



Hardware

1. Install mounting brackets.
2. The PDU comes with brackets for mounting in a rack. To mount the PDU into a rack perform s the following procedure:
3. Attach the mounting brackets to the unit, using the four retaining screws provided for each of the brackets.
4. Choose a location for the brackets.
5. Align the mounting holes of brackets with the notched hole on the vertical rail and attach with the retaining screws.
6. Connect input and output power.
7. Connect Ethernet cable to the PDU.
8. Switch on the PDU.

Note 1 :

The default setting for the way to get I P address is DHCP. I f PDU can not get the I P from DHCP server, the I P address will stay at 192.168.0.216

Note 2 :

TO SETUP THE NETWORK SYSTEM FOR PDU, STRONGLY RECOMMEND TO BUI LD UP THE POWER MONI TORI NG NETWORK SYSTEM I SOLATED WI TH THE OTHERS, I N ORDER TO KEEP THE STABI LI TY OF GETTI NG POWER I NFORMATI ON AND SYSTEM OPERATI ON.

Web Interface

Login:

Input the PDU I P address in web browser.
Default ID is snmp.

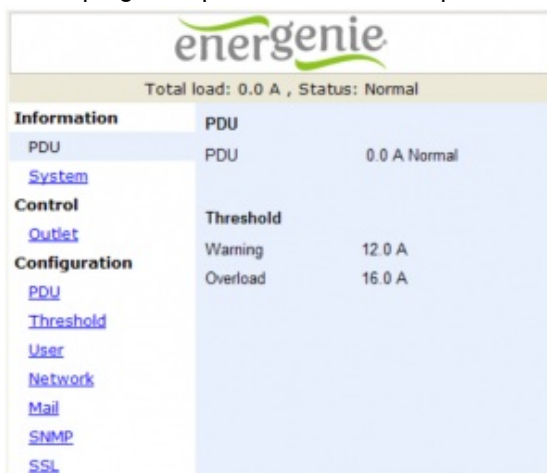
Password is 1234.



Information: PDU

Display total PDU and each outlet power consumption.

When plug the option device – ENV probe, it will display temperature and humidity information.



Information: System

Indicate PDU system information, including:

Model No.

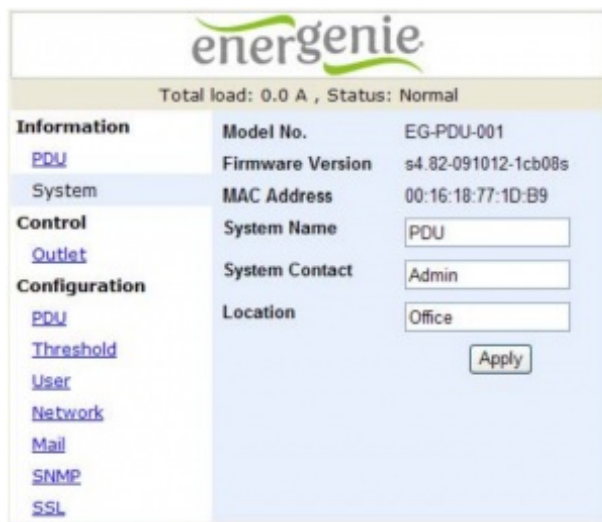
Firmware Version

MAC Address

System Name

System Contact

Location



The image shows the Energenie PDU configuration web interface. At the top, the Energenie logo is displayed. Below it, a status bar shows 'Total load: 0.0 A , Status: Normal'. The main content area is divided into a left sidebar with navigation links and a right main panel. The sidebar has sections: Information (with links to PDU, System, Control, Outlet), Configuration (with links to PDU, Threshold, User, Network, Mail, SNMP, SSL), and Control. The main panel shows fields for Model No. (EG-PDU-001), Firmware Version (s4.82-091012-1cb08s), MAC Address (00:16:18:77:1D:B9), System Name (PDU), System Contact (Admin), and Location (Office). An 'Apply' button is at the bottom right.

Section	Field	Value
Information	Model No.	EG-PDU-001
	Firmware Version	s4.82-091012-1cb08s
	MAC Address	00:16:18:77:1D:B9
	System Name	PDU
Control	System Contact	Admin
	Location	Office

Control: Outlet

Indicate PDU outlet on/ off status and control outlet.

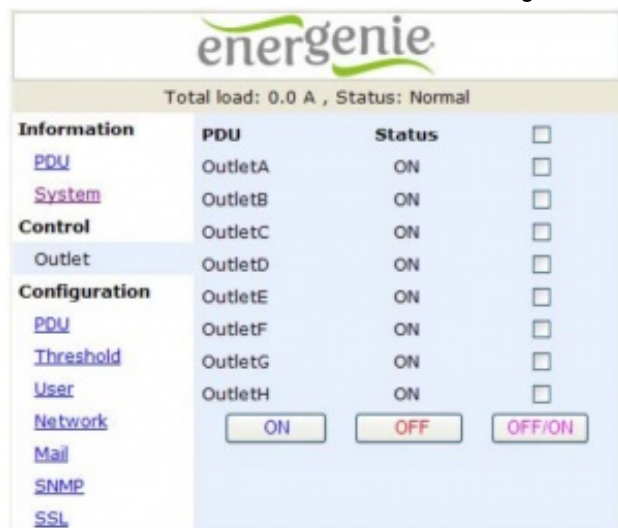
Select the outlet by checking the box and then click ON or OFF button to control output power for PDU

Monitored PDU series does not support this function.

ON: Press the icon to turn on the assigned outlets.

OFF: Press the icon to turn off the assigned outlets.

OFF/ ON: Press the icon to reboot the assigned outlets.



The image shows the Energenie PDU control web interface. It has the same header and status bar as the configuration page. The sidebar is similar, but the 'Control' section is active, showing a table of outlets. The main panel displays a table with columns for PDU, Status, and a checkbox. Below the table are three buttons: ON, OFF, and OFF/ON.

PDU	Status	
OutletA	ON	<input type="checkbox"/>
OutletB	ON	<input type="checkbox"/>
OutletC	ON	<input type="checkbox"/>
OutletD	ON	<input type="checkbox"/>
OutletE	ON	<input type="checkbox"/>
OutletF	ON	<input type="checkbox"/>
OutletG	ON	<input type="checkbox"/>
OutletH	ON	<input type="checkbox"/>

Buttons: **ON** **OFF** **OFF/ON**

Configuration: PDU


Set the outlet name and delay time.

Name: Rename the outlet.

ON: Set delay time for power on sequential.

OFF: Set delay time for power off sequential.

Note: The maximum delay time is 255 seconds.



Total load: 0.0 A , Status: Normal

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Name	ON Delay (sec)	OFF Delay (sec)
OutletA	1	1
OutletB	2	2
OutletC	3	3
OutletD	4	4
OutletE	5	5
OutletF	6	6
OutletG	7	7
OutletH	8	8

Configuration: Threshold

Set the warning and overload threshold for each circuit.
 Set lower and upper threshold for temperature and humidity.



Total load: 0.0 A , Status: Normal

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Name	Threshold (Amp)	
	Warning	Overload
PDU	12	16

Configuration: User

Change I D and password.
 Default I D is snmp and password is 1234.

energenie

Total load: 0.0 A , Status: Normal

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Original

ID

Password

New

ID

Password

Configuration: Network

PDU network information

Enable DHCP: Change the way to get I P address for PDU.

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Total load: 0.0 A , Status: Normal

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IP Address

Host Name

IP Address

Subnet Mask

Gateway

☒ Enable DHCP

DNS Server IP

Primary DNS IP

Secondary DNS IP

Configuration: Mail

When event occurs, PDU can send out email message to pre-defined account.

Email Server: The Email Server only support to be input domain name, not I P address.

Sender's Email: Input the sender email address.

Email Address: Input the recipient email address.

The message in the email:

Indicate Outlet A~ H-XXXXXXXX status in order

X= 0 : means the power off.

X= 1 : means the power on.



The screenshot shows the 'energie' web interface. At the top, it displays 'Total load: 0.0 A , Status: Normal'. On the left sidebar, under the 'Configuration' section, the 'Mail' option is selected. The main content area is titled 'Email Setting' and contains the following fields:

- Email Server:** mail.your.com
- Sender's Email:** sender@yourcom.com
- Recipient's Email Address:** (empty field)
- Apply** button

Configuration: SNMP

When event occurs, PDU can send out trap message to pre-defined IP address.

Trap Notification: Set receiver IP for trap.

Community: Set SNMP community.

Read Community is public and fixed.

Default Write Community is "public" and can be modified by use.



The screenshot shows the 'energie' web interface. At the top, it displays 'Total load: 0.0 A , Status: Normal'. On the left sidebar, under the 'Configuration' section, the 'SNMP' option is selected. The main content area is titled 'Trap Notification' and contains the following fields:

- Receiver IP:** 192.168.0.1
- Apply** button
- Community:**
 - Read:** public
 - Write:** public
 - Apply** button

Configuration: SSL

Enable SSL for web communication.

User must input the correct ID and password to enable SSL function. The ID and password must be the same with the setting in "User".

energenie

Total load: 0.0 A , Status: Normal

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SSL

Enable SSL

☐

Confirmation

ID

Password

Apply

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