19" Intelligent 8-Port PDU
User Manual
Model 163682

INTELLINET
N E T W O R K   S O L U T I O N S

INT_163682_UM_0219_REV_5.02

Before You Begin

Read through this manual carefully before using the product and operate it according to the manual. Keep it in an easily accessible location for future reference.

Do not disassemble the device or remove the seal label from the device. Doing so will void the Intellinet product warranty.

All pictures in this manual are for reference only. The actual product may differ. Intellinet reserves the right to make changes to any software or hardware to improve reliability, function, or design at any time without notice. The information contained herein is subject to change without prior notice.

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Chapter 1: Getting Started

Product Overview

The Intellinet 19" Intelligent 8-Port PDU helps provide steady power to keep network equipment active. It monitors electricity and environmental status to provide users with relevant information and alert them of potential power overloads. The user can readily view equipment status and turn on or shut off each output port by accessing the device through the network.
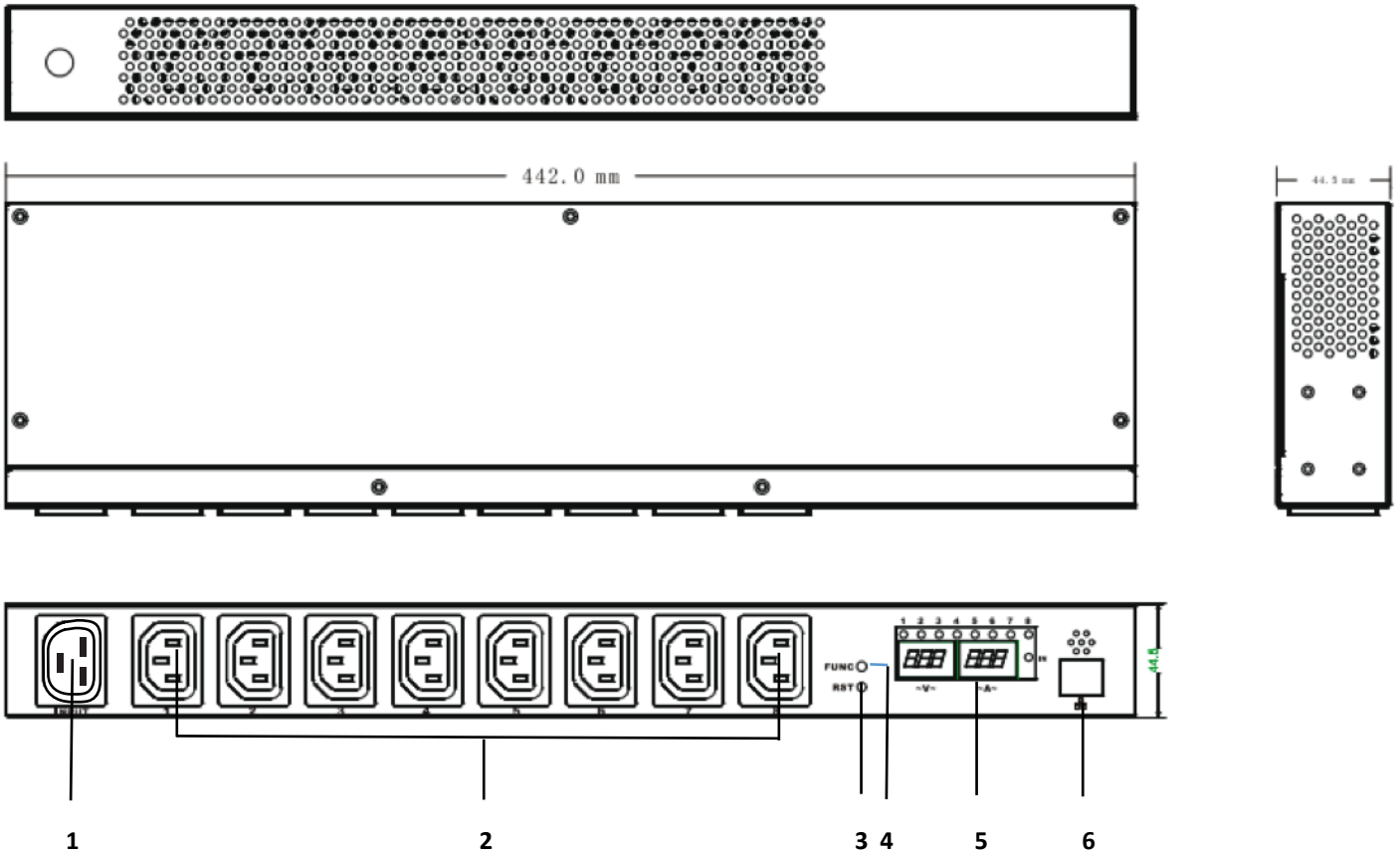
Product Features:

- Eight power outputs (total current, 16 A)
- Current, voltage (total input) measurements
- Built-in temperature and humidity sensors to monitor the environment
- Embedded technology, Java support, web browsing
- Two-level programmable values for warning and overload
- Circuit-delay time setting to prevent power surges
- LED indicators for the power supply on each switch
- LED digital display to show the current value of voltage and current
- Local query buttons of PDU equipment
- Built-in lightning- and voltage-surge resistance to effectively protect connected equipment

Product Specifications:

- Voltage input: 110-240 V, 50/60 Hz
- Voltage output: 110-240 V, 50/60 Hz
- Input socket type: IEC320 C20, *1 bit
- Output socket type: IEC320 C13, *8 bits
- Protection: 16 A overload protection, lightning protection
- Voltage measurement range: 90 – 264 VAC, resolution 1 V
- Current working range: 0 – 20 A, resolution 0.1 A
- Temperature measurement range: 20% -90% RH, resolution 1% RH
- Humidity measurement range: 0 – 50°C, resolution 1°C

Chapter 2: Product Diagram

Key

1. Power Input Socket: IEC320 C20
2. Output Socket: IEC C13
3. Reset Key
4. Function Key: check the machine IP address
5. Display Panel: voltage, current, temperature, humidity, etc.
6. Network Port: connect LAN or WAN

Chapter 3: Functions

Basic Functions

1. **Connecting and Powering Equipment**: Connect the input power cords from your server/network equipment to the output ports on the Intellinet 19" Intelligent 8-Port PDU. Connect one end of a power cord to the input socket and the other to an AC wall outlet. By default, the Intelligent PDU will then power up each power-out socket from ports one through eight at one-second intervals. The display panel will show the current supply voltage and total power output as well as the LED indicator lights.
2. **Check the IP address**: Press the FUNC button to display the IP address, voltage and current. The default IP address is 192.168.0.100.
3. **Check the temperature and humidity**: Press the FUNC button after the display shows the IP address to reveal the temperature and humidity of the environment. The left part of the screen shows temperature and the right shows humidity.
4. **Reset equipment**: Press the RST button on the front panel.
5. **Network access and control**: With the PDU powered-on, users can access and control the host with a PC in the same LAN by connecting an RJ45 cable to the network port.

Interface Functions

PDU

Total load: 0.0A, Temperature: 24℃, Humidity: 32%, Status: Normal

Information		
PDU		
System		
	PDU	
	PDU	Current: 0.0A Status: Normal
Control		
Socket	Threshold value	
	Voltage	
	Warning value	250 V
Configuration	Overload value	300 V
PDU		
Threshold value	**Current**	
User	Warning value	5.0 A
Network	Overload value	6.0 A
	Temperature	
	Warning value (under)	5 ℃
	Warning value (exceed)	50 ℃
	Humidity	
	Warning value	80 %

①. Login Control Interface

Open the IE browser on any PC in LAN host and enter the IP address into the address bar: http://192.168.0.100. Log in to the Intelligent PDU control interface (shown below) by entering the administrator credentials that follow into the login screen:

<div align="center">

User Name: **admin**

Password: **admin**

</div>

②. PDU System Information

Click "System" in the configuration bar on the left side of the interface to display PDU system information. The screen displays the following:

```
Product model            IP PDU
Firmware version         1.0.0

MAC address              00:04:A3:00:00:00

System name              IP PDU

Administrator            admin

System location          office

                              Apply
```

③. Power Port Control

Click "Socket" in the configuration bar on the left side of the interface. The screen displays the following:

```
Socket name         Status                          ☐

outlet1             OFF                             ☐

outlet2             OFF                             ☐

outlet3             OFF                             ☐

outlet4             OFF                             ☐

outlet5             OFF                             ☐

outlet6             OFF                             ☐

outlet7             OFF                             ☐

outlet8             OFF                             ☐

            Operation  ON       ▼         Apply
```

Users can turn on or shut off any of the eight outputs through this interface.

- **Start all**: click on the drop-down menu from the Operation box, choose "Start" and click the "Apply" button.
- **Shut off all**: click the drop-down menu from the Operation box, choose "Shut off" and click the "Apply" button.
- **Custom Start and Shut off** (e.g., the user wants to turn on outlets 1, 2, 3, and 4 but shut off 5, 6, 7, and 8): Click the empty boxes of the outlets to turn on, select Start from the drop-down menu and click Apply. Then, click the empty boxes of the outlets to turn off, select Shut off and click Apply.

④. ON and OFF Time Delay

Click "PDU" in the configuration box on the left side of the interface. The screen displays the following:

Socket name	ON delay (seconds)	OFF delay (seconds)
outlet1	5	5
outlet2	6	6
outlet3	7	7
outlet4	8	8
outlet5	9	9
outlet6	10	10
outlet7	11	11
outlet8	12	12

Apply

- This function lets you adjust delay times in the start-up and shut-off sequences for connected equipment. In the default settings shown here, power is supplied to and shut off from all ports in one-second intervals after five seconds have passed from a start-up or shut-down command. Change values by entering them into the fields and click Apply. **NOTE**: When input power is disconnected from its source, the OFF Delay function is ignored, and power shuts off immediately to all equipment. Shutting off the time-delay function only applies to the devices connected to the PDU.

⑤. Threshold Value Setting

Click "Threshold value" in the configuration box on the left side of the interface. The screen displays the following:

Name	Threshold value			
Current	Warning value	5.0	A	Overload value	6.0	A
Voltage	Warning value	250	V	Overload value	300	V
Temperature	Under	5	℃	Above	50	℃
Humidity	Warning value	80	%		

Apply

The meaning of each input is as follows; adjust values here and click Apply when finished:

- **Current Warning value** (5.0 A) — if total current exceeds 5 A, the PDU will beep twice;
- **Current Overload value** (6.0 A) — if total current exceeds 6 A, the PDU will shut off power to all output ports;
- **Warning Voltage value** (250) — if input voltage exceeds 250 V, the PDU will beep twice;
- **Voltage Overload value** (300) – if input voltage exceeds 300 V, the PDU will shut off power to all output ports;
- **Temperature is Under** (5°C) or **Above** (50°C): if the built-in temperature sensor reads temperatures under or over these thresholds, the PDU will beep twice;
- **Humidity Warning value** (80%): if the built-in humidity sensor reads humidity at more than 80%, the PDU will beep twice.

⑥. Change the User Name and Password

Click "User" in the configuration box on the left side of the interface. The screen displays following:

After filling in the original and new user name as well as the password and password confirmation respectively, click the Apply button. The new user name and password will be used at the next login.

⑦. IP Address and DNS Setting

Click "Network" in the configuration box on the left side of the interface. The screen displays the following:

Users can adjust values here. The meaning of each input in the above dialog box is as follows:

- **Host Name**: the name of the LAN;
- **IP Address**: the current LAN IP address;
- **Subnet Mask**: the current LAN subnet mask;
- **Gateway**: the current gateway;
- **Enable DHCP**: allows the supervising router to distribute network parameters automatically for the Intelligent PDU;
- **Primary DNS IP**: refers to the supervising router setting of the current LAN;
- **Secondary DNS IP**: refers to the supervising router setting of current LAN

Chapter 4: Additional Information

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