



IEC320 C13 Heavy Duty Network-Grade PDU

Paperless Datasheet

In support of environmental sustainability, WatchfulEye provides digital datasheets accessible via a QR code laser-marked on the product housing. Scan the QR code or visit the link below to download the latest datasheet:
<http://datasheet.watchfuleyesolutions.com/US121052C.html>

Input Power Cord

Input Type: NEMA 5-15P
Max Input Amps: 15A @120V
Input Cord Length: 14AWG x 10ft (3x2.08mm² x 3.05m)



Outlets Connection IEC 320 C13

Equipped with premium IEC 320 C13 outlets, each socket is internally wired with 2mm solid copper conductors using lead-free soldering. This ensures low resistance, high current capacity, and exceptional reliability for demanding applications.



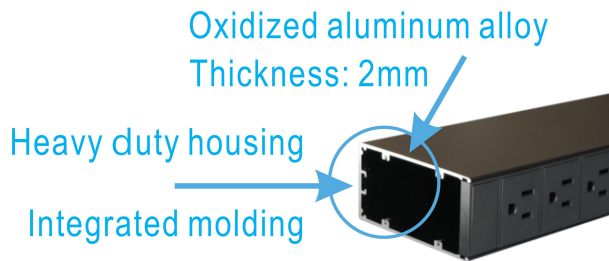
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Heavy Duty Housing

Crafted from high-strength aluminum alloy profiles through one-piece extrusion, the Heavy Duty Housing features a robust and durable enclosure. The surface undergoes anodizing + electrophoretic coating, forming a dense and uniform protective layer with excellent corrosion resistance and surface hardness.

This aluminum profile enclosure is specifically designed to meet the demanding requirements of industrial environments:

- I. High Strength:** Thickened wall design significantly enhances impact and deformation resistance, providing reliable protection for internal electrical components.
- II. Excellent Heat Dissipation:** Leveraging the superior thermal conductivity of aluminum alloy and optimized heat sink structure, it ensures stable performance even under high-load conditions.
- III. Industrial Durability:** Excellent dustproof and corrosion-resistant properties, making it ideal for long-term use in data centers, factories, and other harsh industrial applications.

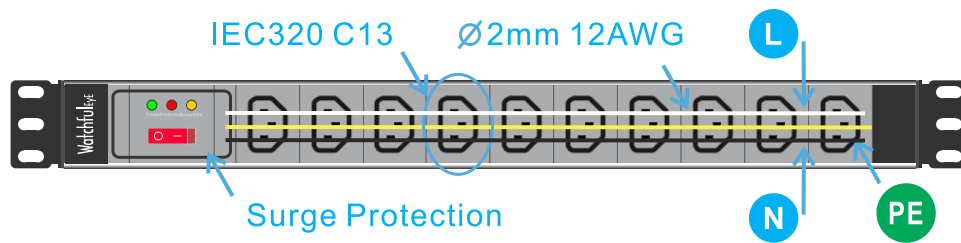


Reliable Lead-Free Soldered Connections

The internal connections utilize high-purity solid copper wire with a diameter of 2mm (equivalent to 12AWG), offering excellent current-carrying capacity and low resistance. Unlike conventional stranded wires, this solid core design provides superior mechanical strength and stability.

All connections between the copper wires and socket terminals are achieved through lead-free soldering technology instead of crimping or snap-fit methods. This creates a strong metallurgical bond, resulting in extremely secure and reliable connections that significantly enhance conductivity while minimizing contact resistance and heat generation.

This robust wiring solution greatly improves the PDU's ability to handle high-load conditions with outstanding long-term reliability and safety.

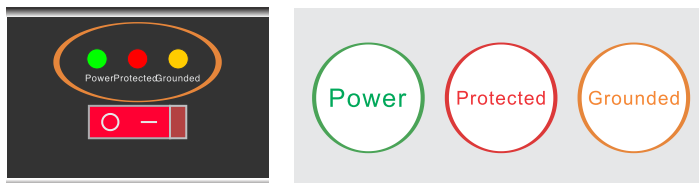


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Industrial-Grade All-Mode Surge Protection

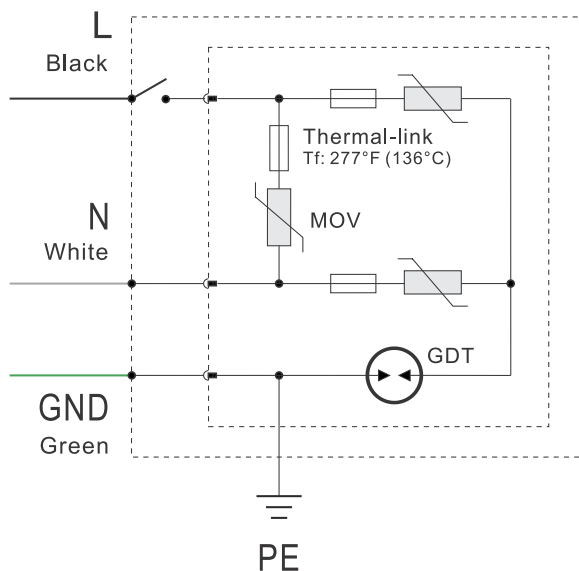
The integrated Surge Protection Module (SPM) provides comprehensive L-N, L-PE, and N-PE all-mode protection, delivering superior defense against both differential-mode and common-mode surge events. Engineered for mission-critical power distribution systems, the module combines high-performance MOV technology with dedicated 20kA Gas Discharge Tube (GDT) protection to ground, ensuring robust surge diversion while maintaining virtually zero ground leakage current during normal operation.

Unlike conventional surge-protected power strips that rely solely on MOV-based protection, the industrial-grade design offers enhanced surge handling capability, reduced grounding system stress, minimized nuisance tripping of leakage protection devices, and extended service life. Three status indicators provide real-time protection monitoring, helping safeguard critical equipment, infrastructure, and operations against lightning-induced surges, utility switching transients, and other power disturbances.



- Power** Green LED power indication: surge protection module is working
- Protected** Red LED surge protection indication: protected: on; failure: off
- Grounded** Orange LED grounded indication: grounded: on; failure: off

Surge Protection Connection Diagram





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Description

19-inch Rack Power Distribution Unit offers reliable full surge protection modes to protect your facility against surge. The PDU provides real-time reporting of protection status via three indicators.

Surge Protective Technical Data

Nominal operating voltage (Un)	125VAC 50/60Hz
Max. continuous operating voltage (MCOV)	150VAC
Nominal Discharge Current (In)	5kA
Max. Discharge Current (Imax)	10kA
Open circuit voltage (Uoc)	15KV
Voltage protection level (Up)	1.0kV
Surge Protection Modes	L-PE, N-PE, L-N
Protective Element	MOV+GDT
Response Time (tA)	<5ns
Leakage Current (at 75%U1mA)	<20μA
Thermal Protection	Rated Functioning Temp. (Tf) 277°F (136°C)
Short Circuit Current Ratings (SCCR)	20kA rms
Surge Protection Back-up Fuse	15A gL
Surge Life at 3kA (8/20μs)	>5000 events



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19" Rackmount 1U PDU Order Information

Model	Ordering Code	Picture
WTH-CS/PDU-C13-SG	US121052C	

Configuration Comparison

Model	Circuit Breaker	Outlet C13	Surge Protector
WTH-CS/PDU-C13-SG	L-line On/Off Switch	10 ports	Yes

Certificates of Products

  **RoHS** IEC61643-11

Note: surge protection MOVs UL listed.



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Shipping Packaging Information

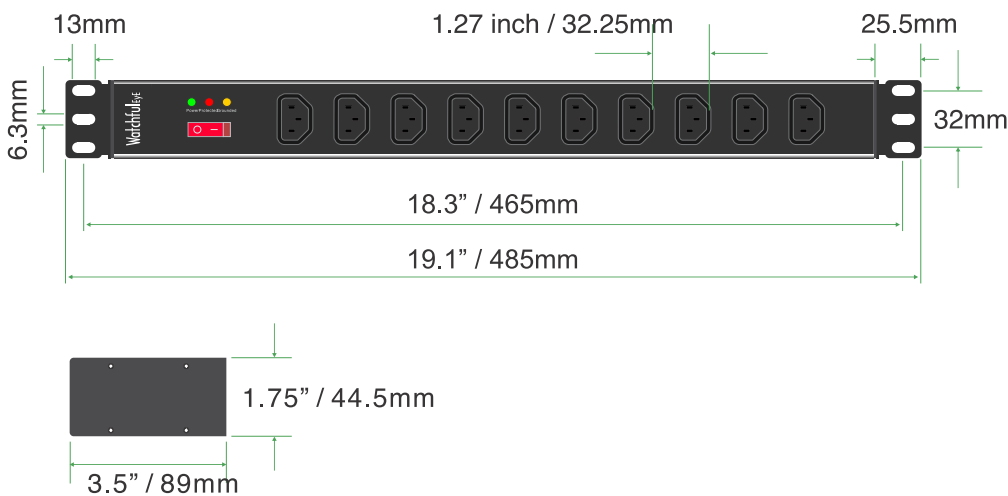
Carton packaging
6 sets per box
Gross Weight: 26.9Lb (12.2kg)
Packing size: 21.3x13.6x13 inch (54x34.5x33cm)

Downloadable CAD-Compatible SVG Drawing

A scalable SVG drawing file is available for this product. The vector-based format preserves dimensional accuracy and can be imported into many CAD and engineering design applications. Customers can use the file for rack layout planning, cabinet integration, installation design, and project documentation.

WTH-CS/PDU-C13 Dimension

19 inch Rack mount, height: 1U (1.75 inch / 44.5mm), depth: 3.5 inch / 89mm





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Description

This specification sheet is based on the WTH-CS/PDU-C13-SG as reference.

WTH-CS/PDU-C13-SG

Inlet Type	NEMA 5-15P
Voltage Rating	120VAC 50/60Hz
Max Input Amps	15A
Input Cord	14AWG x 10ft
Circuit Breaker	16A
Interior Connection	12 AWG
Outlet	IEC320 C13 x11 ports
Housing Design	19-inch Rack
Dimension	19.1x3.5x1.75 inch (485x90x44.5mm)
Net Weight Per Unit	3.4Lb (1.54kg)
Gross Weight Per Unit	4.17Lb (1.89kg)
Temperature Range	- 40° to 176°F (-40° to 80°C)
Relative Humidity	0% to 95% noncondensing
Maximum Operating Altitude	10,000 feet (3000m)
Material of Construction	Black oxidized aluminum alloy

Certificates of Products

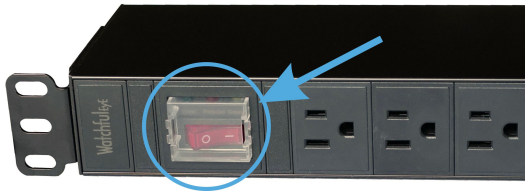
CE RoHS



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Space-Efficient Circuit Breaker Design

The integrated single-pole circuit breaker features a compact, recessed design that minimizes panel space requirements while protecting against accidental operation. By optimizing internal and front-panel space utilization, the design enables higher outlet density and greater flexibility for outlet configurations, making it ideal for high-density rack and data center applications. The protective cover further enhances operational security and helps prevent unintended switching.



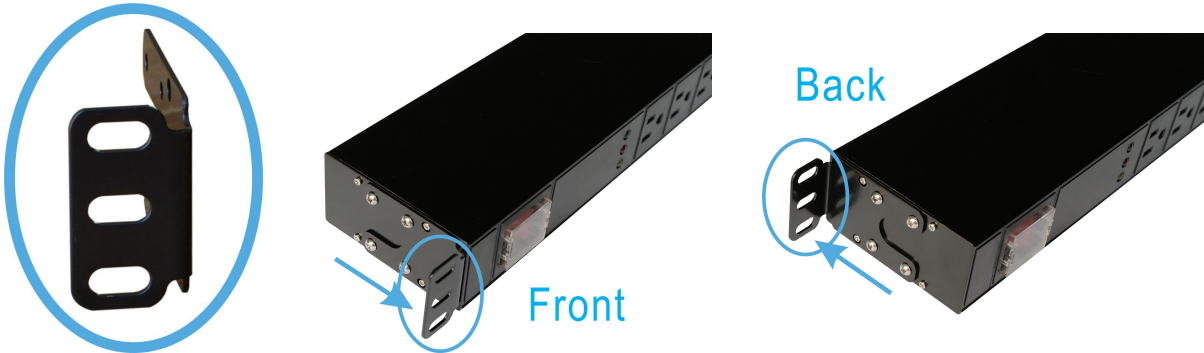
Feature

- Space-efficient circuit breaker design.
- Allows more C13 outlets in the same form factor.
- Maximizes outlet density and power availability.
- Optimized for high-density rack environments.

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Mounting Ears

Detachable mounting ears, reversible ears faces front or back in PDU



Independent Grounding Lug



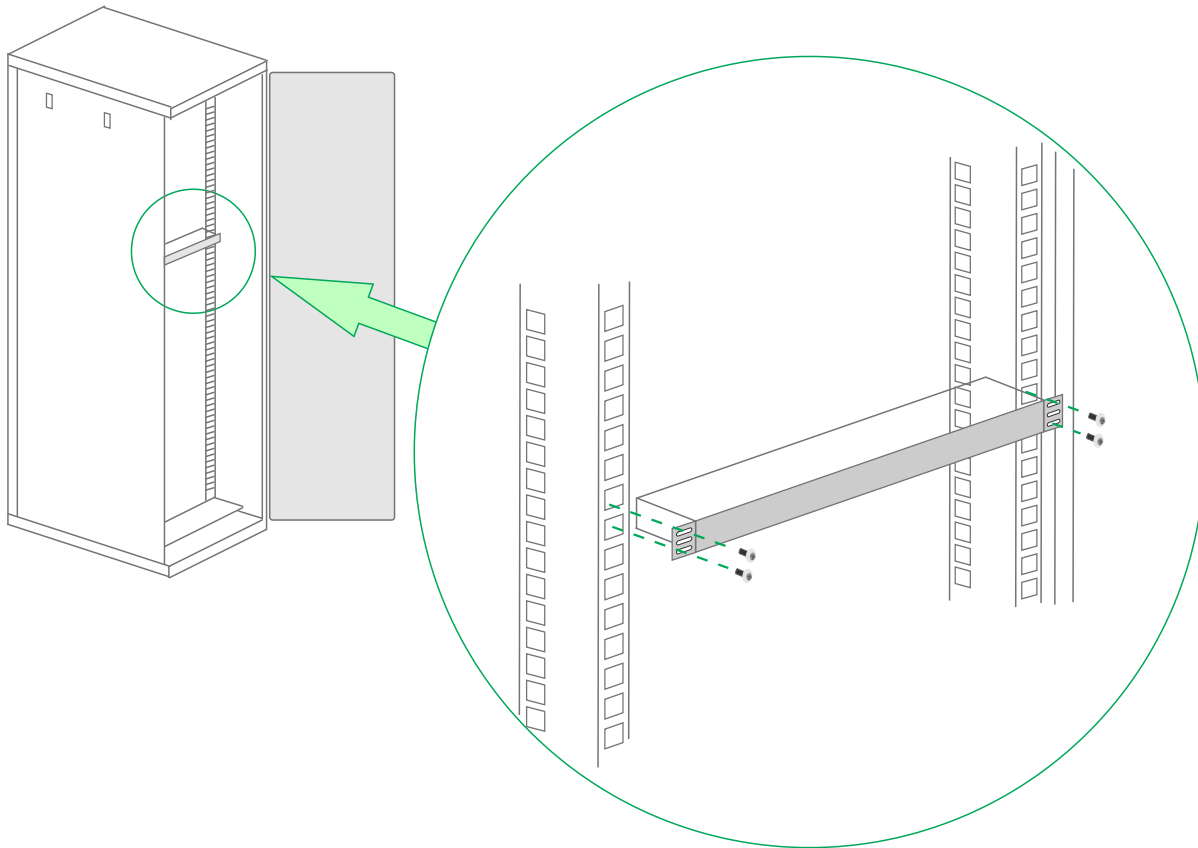
Rack Mount Screw Kit





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19-inch Rack Mounted



Installation Instruction

The PDU surge protectors shall be employed in a Listed enclosure or closet that is only accessible to technicians or service personnels.



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FAQ & Help

1. What should I do if I can't find the paper manual in the product packaging?

Watchful Eye products is committed to going green with paperless data sheets. On the rear side of each product enclosure is an engraved link with URL for downloading paperless data sheet and QR code of the website. If you need the paper data sheet, you can open the link and print the data sheet by yourself.



2. Can I customize a PDU that includes circuit breakers?

Of course, you can customize it, please click the blue button "Start Customize PDU" below

Customize your PDU



Step 1 Select quantity of each PDU module to customize your desired PDU style.

Step 2 After your PDU is created, click and drag the module up or down to adjust its location on the PDU.

Step 3 Request for a quote: fill in quantity of PDU, contact information, E-mail address and message. Click "SUBMIT" and wait for a quote to be sent to your mailbox.

[Start Customize PDU](#)

<http://pdu.watchfuleyesolutions.com>



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Version Update

V22.1: Updated document layout and visual design. Standardized CSS formatting and revised color scheme.
V22.0: Added product description details and enhanced document formatting.

Download WatchfulEye Official App

Scan the QR code to access the WatchfulEye official website for product information and updates.



After-sale Services

WatchfulEye offers a global 5-year quality warranty.

Activate Your 10-Year Warranty

Register this product within 90 days of purchase to receive:

- 5-year standard warranty
- Additional 5-year free extended warranty

Customers are responsible for shipping, labor, and any incidental costs.

This warranty does not cover damage caused by misuse, improper installation, or unauthorized modifications.

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