CyberPower[®]

User's Manual

Power Distribution Unit



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Basic Series:

PDU20BHVIEC8R PDU20BHVIEC10R PDU20BHVIEC12R PDU20BHVIEC12Ra

Basic Series:(0U)

PDU10BVHVIEC16F PDU10BVHVIEC20F

PDU20BVHVIEC16F PDU20BVHVIEC20F PDU20BVHVIEC24F PDU20BVHVIEC32F PDU20BVHVIEC38F

PDU Naming Convention:

- 1. Amperage:
- 2. Series:
- 3. Rack Space:
- 4. Input Voltage:
- 5. Plug Type:
- 6. Outlet Number Front:
- 7. Outlet Number Rear:

Amperage – 15A, 20A, 30A B: =Basic M: =Metered SW: = Switched NULL: =Horizontal V:= Vertical HV:= High Voltage – 200V to 240V IEC:= (IEC 320 C14/C20) Number of Outlets followed by F – Example 8F Number of Outlets followed by R – Example 8R

Package Contents



PDU (1)

Mounting Brackets



مریح Horizontal Installation Used (1 set)

SD SD SD SD

Vertical Installation

Used (1 set)

Bracket Mounting Screws M4 X 6 (4pcs)

1

Cable Tie (12/ 15/ 21/ 24/ 30/ 36/ 45/ 48/ 57 pcs - varies by models) for Cord Retention Tray



Ground Screw M5 X 6 (1 pcs)

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Cord Retention Tray (1/2/3/4 pcs - varies by models)



Vertical Mounting Brackets (1 set)(for 0U models only)

Cord Retention Tray Mounting Screws M3 X 6 (4/8/12/16 pcs varies by models)



Keyhole Mounting Pegs (2pcs) with Screws M4 X 6 (2pcs) (for 0U models only)

For more information on CyberPower products, visit www.cyberpower.com

Metered Series:(0U)

PDU20MVHVIEC24F PDU20MVHVIEC30F PDU20MVHVIEC38F Documentation:



User's Manual



Before using, please check to ensure the package contains all the items shown above. If there are any missing parts, please contact CyberPower technical support at www.cyberpower.com

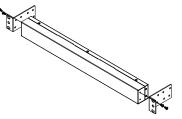
Safety Precautions Read the following before installing or operating the Power Distribution Unit (PDU):

- 1. **CAUTION!** Use ONLY the supplied hardware (including screws, pegs and cord retainer clips) to attach the mounting brackets. Using different hardware or improper installations may cause damage that is NOT covered by this warranty.
- The PDU must only be plugged into a three-wire, grounded outlet on a circuit protected by a fuse or circuit breaker. Connection to any other type of power outlet may result in a shock hazard.
- Do not use extension cords or adapters with this PDU.
- 4. Never install a PDU or associated wiring or equipment during a lightning storm.
- 5. Check that the power cord, plug, and socket are in good condition.
- 6. The socket-outlet shall be installed near the equipment and shall be easily accessible.
- CAUTION! To prevent the risk of fire or electric shock, this PDU should be installed in a temperature and humidity controlled indoor area free of conductive contaminants. Do not install this PDU where excessive moisture or heat is present.

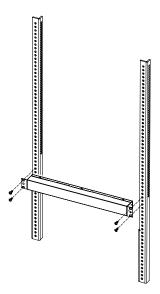
Installation

Horizontal Installation (1U models only)

Step 1 – Mounting bracket installation



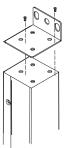
Install the screws (M4 X 6) in holes diagonally from each other. Step 2 – PDU Mounting



Install the PDU using fasteners compatible with the rack.

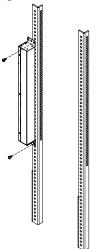
Vertical Installation with Brackets

Step 1 – Mounting bracket installation



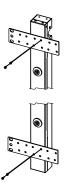
Install the screws (M4 X 6) in holes diagonally from each other.

Step 2 – PDU Mounting



Install the PDU using fasteners compatible with the rack.

Vertical Installation with Brackets (OU models only) Step 1 – Mounting bracket installation

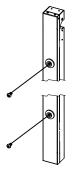


Attach the Vertical Mounting Brackets to the PDU with the 4 supplied Bracket Mounting Screws (M4 X 6).

Step 2 – PDU Mounting

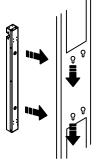
Install the PDU using fasteners compatible with the rack.

Step 1 – Keyhole Mount installation



Attach the Keyhole Mounting Pegs to the PDU with the 2 supplied Bracket Mounting Screws (M4 X 6).

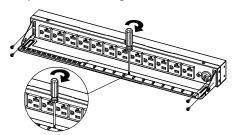
Step 2 – PDU Mounting



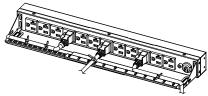
Align the the Keyhole Mounts to the Keyhole Slots on the rack. Insert and slide down to lock firmly into place.

Cord Retention Tray installation (Optional for both horizontal and vertical installations)

Adjust the length of the Cord Retention Tray till the screw hole on the Tray and PDU are aligned.



Attach the Cord Retention Tray to the PDU with the 4 supplied Cord Retention Tray Mounting Screws (M3 X 6). Tighten the Cord Retention Tray with the screw on it.

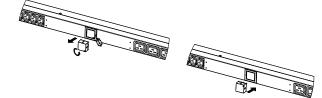


Use the Cable Ties provided to fasten each power cord to the Cord Retention Tray.

Meter Configuration



Depending on installation method (vertical or horizontal), the LED Meter may need to be rotated, before installation, for proper orientation.



Use a screw driver to gently remove the LED Meter. Rotate the LED Meter 90 degrees, and insert back into the PDU.

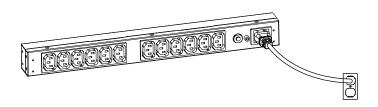
Step 1 – Receptacle evaluation

Ensure that the plug type of your PDU unit (e.g. NEMA 5-15P, NEMA 5-20P, NEMA L5-30P) matches the wall receptacle type that you are using.



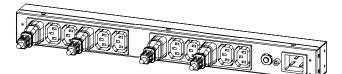
PDU must be plugged into a three-wire, grounded wall receptacle only. The wall receptacle must also be connected to an appropriate branch circuit/main with fuse or circuit breaker protection. Connection to any other type of wall receptacle may result in a shock hazard.

Step 2 – Plug the PDU into the wall receptacle



Step 3 – Attach equipment

Before attaching equipment, it is important to calculate the total load that will be placing on the PDU. It is extremely important not to exceed the PDU's maximum current load (as outlined in the Specifications section). In order to determine the total load, simply add up the amperage of your devices and ensure that it does not exceed the unit's capacity.



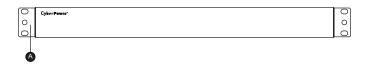
Troubleshooting

Problem	Possible Cause	Solution
PDU outlets do not provide power to connected equipment	1. Open breaker 2. Loose power cord	Reset breaker, check if plug is completely connected. If the problem remains, contact tech support.
Amperage displayed on Amperage Meter exceeds the unit's capability (Metered type only)	 Overload Amperage meter is damaged 	The meter will flash when overloaded. Reduce the load on the PDU until the overload is gone. If the problem remains, contact tech support.
Circuit breaker has tripped	 Sustained overload Excessive ambient or internal temperatures. Faulty breaker 	Reset breaker. If the problem remains, contact tech support.

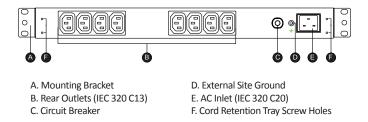
Dasic Series (IU ZUA)

Product Features

Front View



Back View

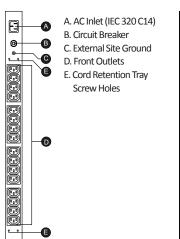


Model Name	PDU20BHVIEC8R PDU20BHVIEC10R PDU20BHVIEC12R PDU20BHVIEC12Ra
Input	
Voltage	200~240V
Max Current	20 A
Regulatory Derated Input Current	16 A
Circuit Breaker	16 A
Plug Type	IEC 320 C20
Power Cord Length	10 ft /3.05m
Output	
Voltage	200~240V
Max Current	20 A
Outlet Type(Quantity)	IEC 320 C13(8) IEC 320 C13(10) IEC 320 C13(12) IEC 320 C19(2)/C13(10)
Indicators	
LED Indicators	N/A
Meter Readout	N/A
Physical	
Dimension (WxDxH)	17.5" x 1.5" x 1.75" / 44.45 x 3.81 x 4.45 cm
Environmental	
Humidity	Operating 0 to 95% Non-condensing Non-Operating 0 to 95% Non-condensing
Altitude	Operating Oft to 10,000ft/3048m Non-Operating Oft to 50,000ft/15240m
Temperature	Operating 32F/0°C to 95F/35°C Non-Operating 5F/-15°C to 113F/45°C
Safety Approvals	
Certifications	UL60950_1 , CSA C22.2, CE, RoHS Compliant

Dasic Series (UU IUA)

Product Features

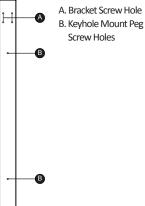
Front View



Back View

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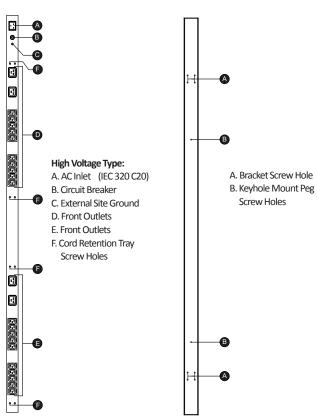
Model Name	PDU10BVHVIEC16F PDU10BVHVIEC20F
Input	
Voltage	200~240V
Max Current	10 A
Regulatory Derated Input Current	10 A
Circuit Breaker	10A
Plug Type	IEC 320 C14
Power Cord Length	10 ft /3.05m
Output	
Voltage	200~240V
Max Current	10 A
Outlet Type(Quantity)	IEC 320 C13(16) IEC 320 C19(4)/C13(16)
Indicators	
LED Indicators	N/A
Meter Readout	N/A
Physical	
Dimension (WxDxH)	1.75"x1.5"x24" / 4.45x3.81x60.96 cm 1.75"x1.5"x36" / 4.45x3.81x91.44 cm
Environmental	
Humidity	Operating 0 to 95% Non-condensing Non-Operating 0 to 95% Non-condensing
Altitude	Operating Oft to 10,000ft/3048m Non-Operating Oft to 50,000ft/15240m
Temperature	Operating 32F/0°C to 95F/35°C Non-Operating 5F/-15°C to 113F/45°C
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Dasic Series (UU ZUA)

Product Features

Front View

Back View

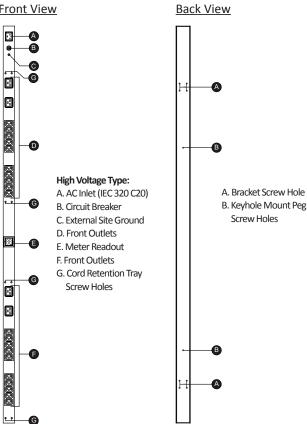


Model Name	PDU20BVHVIEC16F PDU20BVHVIEC20F PDU20BVHVIEC24F PDU20BVHVIEC32F PDU20BVHVIEC38F
Input	
Voltage	200~240V
Max Current	20 A
Regulatory Derated Input Current	16 A
Circuit Breaker	16 A
Plug Type	IEC 320 C20
Power Cord Length	10 ft /3.05m
Output	·
Voltage	200~240V
Max Current	20 A
	IEC 320 C13(16)
	IEC 320 C19(4)/C13(16)
Outlet Type(Quantity)	IEC 320 C19(4)/C13(20)
	IEC 320 C19(4)/C13(24)
	IEC 320 C19(4)/C13(30)
Indicators	
LED Indicators	N/A
Meter Readout	N/A
Physical	
Dimension (WxDxH)	1.75" x 1.5" x 24" / 4.45 x 3.81 x 60.96 cm 1.75" x 1.5" x 36" / 4.45 x 3.81 x 91.44 cm 1.75" x 1.5" x 48" / 4.45 x 3.81 x 121.92cm 1.75" x 1.5" x 60" / 4.45 x 3.81 x 152.40 cm 1.75" x 1.5" x 70" / 4.45 x 3.81 x 177.80 cm
Environmental	1.75 X 1.5 X 70 / 4.45 X 3.81 X 177.80 Cm
environmentai	Operating 0 to 95% Non-condensing
Humidity	Non-Operating 0 to 95% Non-condensing
Altitude	Operating Oft to 10,000ft/3048m Non-Operating Oft to 50,000ft/15240m
Temperature	Operating 32F/0°C to 95F/35°C Non-Operating 5F/-15°C to 113F/45°C
Safety Approvals	•
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Product Features

Front View



Model Name	PDU20MVHVIEC24F PDU20MVHVIEC30F PDU20MVHVIEC38F	
Input		
Voltage	200~240V	
Max Current	20 A	
Regulatory Derated Input Current	16 A	
Circuit Breaker	16 A	
Plug Type	IEC 320 C20	
Power Cord Length	10 ft /3.05m	
Output		
Voltage	200~240V	
Max Current	20 A	
Outlet Type(Quantity)	IEC 320 C19(4)/C13(20) IEC 320 C19(6)/C13(24) IEC 320 C19(8)/C13(30)	
Indicators		
LED Indicators	N/A	
Meter Readout	Amperage	
Physical		
Dimension (WxDxH)	1.75" x 1.5" x 48" / 4.45 x 3.81 x 121.92 cm 1.75" x 1.5" x 60" / 4.45 x 3.81 x 152.40 cm 1.75" x 1.5" x 70" / 4.45 x 3.81 x 177.80 cm	
Environmental		
Humidity	Operating 0 to 95% Non-condensing Non-Operating 0 to 95% Non-condensing	
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Temperature	Operating 32F/0°C to 95F/35°C Non-Operating 5F/-15°C to 113F/45°C	
Safety Approvals		
Certifications	UL60950 1, CSA C22.2, CE, RoHS Compliant	



Cyber Power Systems, Inc. www.cyberpower.com

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