

AEG



Power
Distribution
Units

PDU 10 – 1 / PDU 10 – 2
PDU 16 – 1 / PDU 16 – 2

Thank you for deciding to purchase the power distribution unit from AEG Power Solutions.

The following safety instructions are important and will protect you against problems from operating errors and possible dangers. Please read these instructions carefully prior to commissioning!

1 **Notes on these Operating Instructions**

Duty to provide information

These operating instructions will help you to install and operate the power distribution units PDU 10 – 1, PDU 10 – 2, PDU 16 – 1 or PDU 16 – 2, referred to below as power distribution unit, safely and correctly in accordance with the designated use. These operating instructions contain important information for avoiding dangers.

Please read these instructions carefully prior to commissioning!

These operating instructions are a composite part of the power distribution unit.

The owner of this product is obliged to communicate the full content of these operating instructions to all personnel starting the power distribution unit or performing maintenance or any other work on the unit, without the information having to be requested.

Validity

These operating instructions comply with the current technical specifications of the power distribution unit at the time of publication. The contents do not constitute subject matter of the contract, but serve for information purposes only.

Warranty and liability

We reserve the right to alter any specifications given in these operating instructions, especially with regard to technical data and operation, prior to start-up or as a result of service work.

Claims in connection with supplied goods must be submitted within one week of receipt, along with the packing slip. Subsequent claims cannot be considered.

The warranty does not apply to damage caused by non-compliance with these instructions (such damage also

includes opening the housing). AEG will accept no liability for consequential damage. AEG will rescind all obligations such as warranty agreements, service contracts, etc. entered into by AEG or its representatives without prior notice in the event of maintenance and repair work being carried out with anything other than original AEG parts or spare parts purchased from AEG.

Handling

The power distribution unit is designed and constructed so that all necessary steps for start-up and operation can be performed without any internal manipulation of the product. Maintenance and repair work may only be performed by trained and qualified personnel.

Illustrations are provided to clarify and facilitate certain steps.

If danger to personnel and the unit cannot be ruled out in the case of certain work, it is highlighted accordingly by pictographs explained in the safety regulations of chapter 3.

Hotline

If you still have questions after having read these operating instructions, please contact your dealer or our hotline:

Tel.: +49 (0)180 5 234 787

Fax: +49 (0)180 5 234 789

Internet: www.AEGpartnerNet.com

Copyright

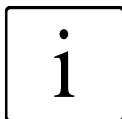
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2 Overview



Power **D**istribution **U**nits are firstly used to duplicate connections, secondly for trouble-free connection of loads with different plug configurations to non-heating appliance output sockets acc. to IEC 320. Power distribution units therefore allow a wide variety of different appliances to be connected, e.g. PC, workstations, servers, relatively small telephone systems and similar loads.

Each of the power distribution units is available in two versions for connecting to non-heating appliance sockets in acc. with IEC 320, rated at 10 A and 16 A.

2.1 Principle of Operation

The power distribution units have been designed for installation in standard 19 inch (482.6 mm) network cubicles, and can be mechanically attached in a wide range of variants. The output sockets vary and allow flexible use in a wide range of applications.

Alternatively, these power distribution units can also be used as portable socket strips. The mounting brackets on the sides can be completely removed for this purpose.

3 Safety

3.1 General Safety Instructions

Read these operating instructions carefully prior to commissioning of the power distribution unit and observe the safety instructions!

Only use the product if it is in a technically perfect condition and always in accordance with its intended purpose, while being aware of safety and danger aspects, and in accordance with the operating instructions! Immediately eliminate any faults that could be detrimental to safety.

The following pictograms are used in these operating instructions to identify dangers and important information:



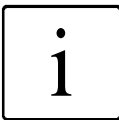
Danger!

Identifies risk of fatal injury to the operator.



Attention!

Identifies risk of injury and risk of damage to the device and parts of the device.



Information!

Useful and important information for operating the power distribution unit.

3.2 Safety Instructions for Power Distribution Units

This chapter contains important instructions for the power distribution unit, and must be followed during installation, operation and maintenance.



The product may only be opened by trained and qualified personnel. Repairs may only be carried out by qualified customer service staff!



For reasons of personal protection, the product must be correctly earthed, i.e. operated exclusively on earthed power systems!

The power distribution unit is only allowed to be operated and connected using the attached mains connection cable with PE conductor on 220 / 230 / 240 V AC circuits with protective earthing.



Observe the following safety instructions to ensure permanent operational safety of and safe work with the power distribution unit:

- ◆ Do not dismantle the power distribution unit!
(The power distribution unit does not contain any parts that require regular maintenance. Bear in mind also that the warranty will be invalidated if the unit is opened!)
- ◆ The product is designed to be installed inside in rooms. Never install the power distribution unit in the vicinity of water or in an excessively damp environment!
- ◆ Condensation may occur if the power distribution unit is brought from a cold environment into the room where it is to be installed. The power distribution unit must be absolutely dry prior to start-up. As a result, leave it to acclimatize for at least two hours.
- ◆ If the product is used in conjunction with a UPS (uninterruptible power supply) as an additional output distribution system, take care that the input of the UPS is never connected to its output!
- ◆ Ensure that no fluids or foreign bodies can penetrate the power distribution unit!
- ◆ The mains connection should be near the product and easily accessible to facilitate disconnecting the AC input or pulling out the plug!

3.3 Technical Data

Type rating

PDU 10 – 1 / PDU 10 – 2	2500 W max.
PDU 16 – 1 / PDU 16 – 2	4000 W max.

Mains connection parameters

Nominal connection voltage 220 / 230 / 240 Vac

Frequency 50 / 60 Hz

Nominal current

PDU 10 – 1 / PDU 10 – 2 10A

PDU 16 – 1 / PDU 16 – 2 16A

Mains connection by non-heating appliance plug

PDU 10 – 1 / PDU 10 – 2 IEC 320 C 14 (10A)

PDU 16 – 1 / PDU 16 – 2 IEC 320 C 20 (16A)

Connection cable

introduced from left side

PDU 10 – 1 / PDU 10 – 2 3 x 1.0 mm² 1 m

PDU 16 – 1 / PDU 16 – 2 3 x 1.5 mm² 1 m

Outputs

PDU 10 – 1 (6-way) 6 x non-heating appliance sockets IEC 320 C 13

PDU 10 – 2 (6-way) 6 x shockproof sockets
DIN 49440

PDU 16 – 1 (7-way) 4 x non-heating appliance sockets
IEC 320 C 13

3 x non-heating appliance sockets IEC 320 C 19

PDU 16 – 2 (6-way) 3 x shockproof sockets
DIN 49440

3 x non-heating appliance sockets IEC 320 C 19

Protection functions

PDU 10 – 1 / PDU 16 – 1 (additional protection)

Non-heating appliance sockets IEC 320 C 13, each fused in pairs with miniature fuse T 6.3 A. Monitoring/ ready indicator by green LED.

PDU 10 – 2 (basic protection)

Shockproof sockets centrally fused by miniature fuse T 10 A. Monitoring/ ready indicator by green LED.

General data

Dimensions W x H x D [mm]

incl. mounting brackets on the sides 482.6 (19") x 44.4 x 44.4
straight housing width 429

Weight [kg] 0.7

Attachment horizontal or vertical using
2 screws M6 x 16 mm in
cage nuts M6

Housing Aluminium alloy,
black

Conformity CE

3.4 CE certificate

Declaration of Conformity

Document - No. CE 0114

We,

AEG Power Solutions GmbH
Emil – Siepmann – Straße 32, D – 59581 Warstein

declare that the product

Power Distribution Unit

PDU 10 – 1 / PDU 10 – 2 2500 W max.

PDU 16 – 1 / PDU 16 – 2 4000 W max.

to which this declaration relates complies with the essential requirements of the following standards or other normative documents where applicable

EN 60947-1:2004

EN 60950-1:2006

and therefore complies where applicable with the essential requirements and provisions of the following directive

2004 / 108 / EEC EMC- Directive
2006 / 95 / EEC Low Voltage Directive

Year of labelling the CE – Mark : 2009

59581 Warstein, 28.01.2009

AEG Power Solutions GmbH
Quality Management



(Filmar)

AEG Power Solutions GmbH
Product Management
Compact UPS

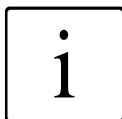


(Schneider)

4 Set-up

4.1 Unpacking and Inspection

The product has been completely checked and inspected. Although the product has been packed and shipped with the usual degree of care, damage during transport cannot be ruled out completely.



Any claims due to transport damage must always be asserted against the transport company!

Check the shipping container for damage on arrival. If necessary, ask the transport company to check the goods and make a record of the damage in the presence of the transport company employee and report the damage to the AEG representative or dealer within eight days of delivery.

Check the content is complete:

- ◆ PDU type 10 - 1, 10 - 2, 16 - 1 or 16 - 2
each with pre-installed mounting brackets on the side
- ◆ Small bag with
2 cage nuts M6 and 2 screws M6x16
- ◆ Operating instructions

Please contact our hotline (see page 4) in case of any discrepancy.

The original packaging provides effective protection against mechanical shocks and should be retained so the unit can be transported safely later on.



Please keep the plastic packaging bags away from babies and children in order to safeguard against suffocation accidents.

4.2 Installation Site

The power distribution units are designed to be installed in a protected environment. Suitable rooms are dry, relatively dust-free and free from chemical vapours.



Check to make sure the voltage and frequency data correspond to the values applicable to your loads. Make sure that the current consumption of all connected loads does not exceed the type rating of the power distribution unit.

5 Installation and Operation

5.1 Installation

Mounting brackets are installed on both sides of the power distribution unit at the factory.

Mounting bracket L

Mounting bracket R



Use as socket strip

If you want to use the power distribution unit as a portable socket strip, remove the brackets described above, if necessary by using a pair of pliers.

Use as a power distribution unit in network cubicles

The design of the power distribution unit allows it to be used universally in 19 inch (482.6 mm) standard network cubicles. In the cubicle frame itself, the power distribution unit can be mounted either horizontally or vertically. Provision has also been made for it to be used in the front or rear area. As a result, the brackets can be used in a variety of ways, in order to take account of a wide range of installation requirements. If you wish to change the position of these brackets, remove them carefully (CAUTION: do not bend!) and then reinsert them in the required position in accordance with one of the illustrations below:



Frontal installation



Inverse installation

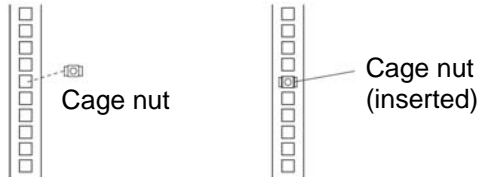


Frontal side installation

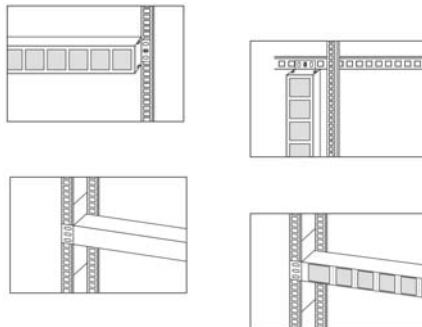


Inverse side installation

Now attach the two supplied cage nuts in the frame of your network cubicle at the previously selected position:



Now line up the slots of the mounting brackets with the cage nuts you have just inserted. Then fasten the power distribution unit using the supplied screws:



6 Troubleshooting

6.1 Fuse Change

Overloading the power distribution unit by exceeding the maximum specified currents will result in the line-side miniature fuse. This is shown optically by the indicator (LED) positioned in the immediate vicinity of the fuse going out.

Only renew the fuse(s) using components of the same types. In this case, it is permitted for the amperage to be reduced or for the trigger characteristics used to be changed. This allows selectivity criteria to be met, in particular for operation with uninterruptible power supply units.

Guarantee Certificate

Type:

Unit number:

Date of purchase:

Dealer stamp / signature

Errors and changes excepted.

AEG

Power Solutions

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59581 Warstein-Belecke

Germany

Operating instructions

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