

Delta - Amplon Family

Over Voltage Cutoff Device (OVCD)

Installation & Operation Quick Guide

ENGLISH



1 Product Introduction

The Over Voltage Cutoff Device, hereafter referred to as OVCD, is applicable to Delta N/ R/ RT series 1~3kVA UPS. It prevents the abnormal high voltage from entering into and damaging the UPS. The OVCD shall be installed between the mains and the UPS. It not only disconnects the live wire between the mains and the UPS in case of abnormal high voltage, but also supports input voltage surge absorption. There are two models of the OVCD, rated current 10A and 16A, for your selection.

2 Important Safety Instructions

- Only qualified service personnel can perform installation and maintenance of the OVCD.
- The OVCD must be used together with Delta N/ R/ RT series 1~3kVA UPS. Please refer to the following table.

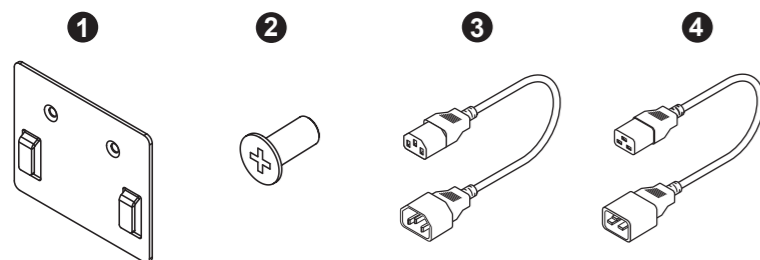
| OVCD Model | PDB2211A250035 | PDB2211A251035 |
|---|-----------------------|---------------------------------------|
| Applicable to Delta N/ R/ RT series UPS Model | N-1K R-1K RT-1K | N-2K N-3K R-2K R-3K RT-2K RT-3K |

NOTE:
For detailed information about the applicable UPS model list, please contact your local dealer.

- Load power exceeding the rated value is not allowed.
- Please install the OVCD in an indoor temperature controlled environment that is free of conductive contaminants.
- Do not operate the unit in an extremely dusty/ unclean area or a location near heating devices, water and excessive humidity. Do not expose the unit to direct sunlight.
- Select a location where provides good air circulation for the unit at all times.
- Properly route power cords so they cannot be walked on or damaged.
- The OVCD is not intended for use in direct patient care or in life support applications.
- In case of smoke, quickly cut off the power and contact your dealer.
- In case of fire, use dry powder rather than liquid fire extinguishers. Using liquid fire extinguishers may cause electric shock.

3 Package List

- Models PDB2211A250035 & PDB2211A251035



| No. | Item | Q'ty | PDB2211A250035 | PDB2211A251035 |
|-----|-------------------|-------|----------------|----------------|
| 1 | OVCD Ear | 1 PC | V | V |
| 2 | #6-32 Screw | 2 PCS | V | V |
| 3 | AC Power Cord 10A | 1 PC | V | X |
| 4 | AC Power Cord 16A | 1 PC | X | V |

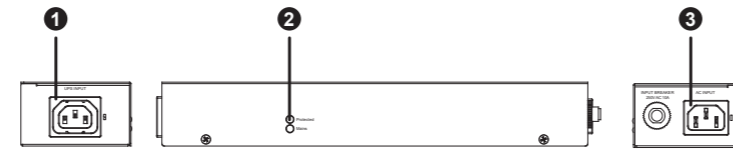
NOTE:
1. If there is any damage or anything missing, please immediately contact the dealer from whom you purchased the unit.
2. If the OVCD needs to be returned, carefully repack the OVCD and all of the accessories using the original packing material that came with the unit.

4 Standard Compliance

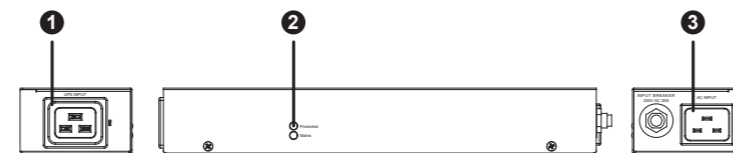
- CE
- IEC/ EN 62040-1
- IEC/ EN 62040-2 CATEGORY C1

5 LEDs and Sockets Introduction

- PDB2211A250035



- PDB2211A251035



| No. | Item | Description |
|-----|------------------|---|
| 1 | UPS INPUT Socket | Connects to the UPS's input socket. |
| 2 | LED Indicators | Indicate the AC input status. 1. Mains LED Indicator: When there is AC input, the Mains LED indicator illuminates 'Green'. 2. Protected LED Indicator: When the AC input voltage is out of the acceptable range, the Protected LED indicator illuminates 'Red'. |
| 3 | AC INPUT Socket | Connects to the Mains. |

NOTE:
In normal status, the **Mains LED** indicator is on and the **Protected LED** indicator is off.

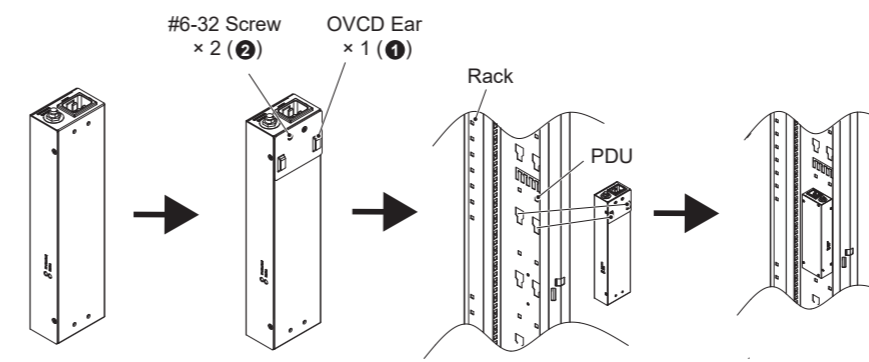
6 Installation

- PDB2211A250035 & PDB2211A251035

When installing the OVCD, please pay attention to the following:

- The OVCD is properly placed and fixed.
- The OVCD's two sockets can be easily plugged.
- The OVCD's LEDs are conveniently observed for users to know its current status.
- The OVCD can be fixed on the rack. Please see **Figure 1** for installation procedures.

- Use the provided two #6-32 screws (2) to fix the ear (1) on the OVCD.
- Hook the OVCD's ear (1) on a PDU that has been installed on a rack.



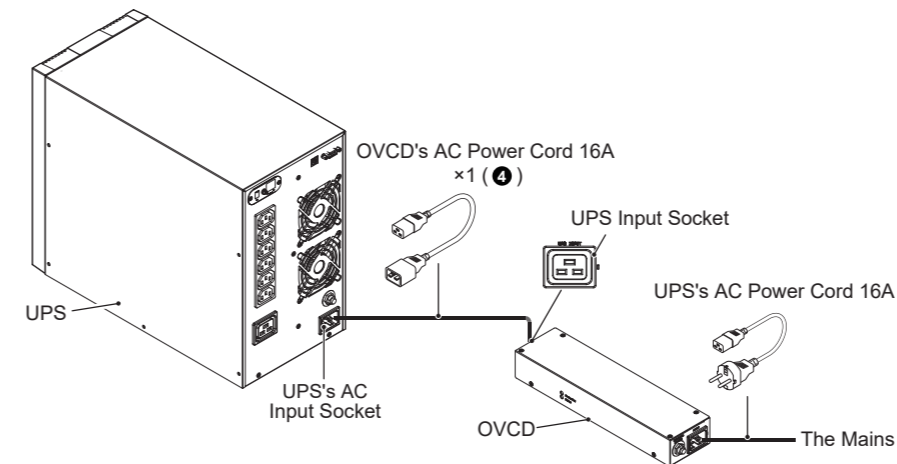
(Figure 1)

7 Wiring

The two models' wiring method is almost the same. Below, only the illustration of Model PDB2211A251035 is taken for example.

- Connect one end of the provided OVCD's AC power cord to your UPS's **AC INPUT** socket, and connect the other end to the OVCD's **UPS INPUT** socket (please see **Figure 2**).
- Connect one end of your UPS's AC power cord to the OVCD's **AC INPUT** socket and connect the other end to the Mains (please see **Figure 2**).

NOTE:
Only qualified service personnel can perform the action mentioned above.



(Figure 2)

8 Troubleshooting

| Fault Status | Possible Cause | Troubleshooting |
|--|---|---|
| The Mains LED indicator is off. | 1. There is no AC input. 2. The OVCD's breaker triggers protection. 3. The OVCD has internal abnormalities. | 1. Check whether the AC input is on. If not, please power it on. 2. Check whether the OVCD's breaker is triggered or not. If yes, please press the breaker button. If the breaker is still triggered, please contact service personnel. 3. Contact service personnel. |
| Both of the Mains and Protected LED indicators are on. | The OVCD triggers protection and there is no output voltage. | Check whether the AC input voltage is within the acceptable range (about the range definition, please refer to 9 Technical Specifications and your UPS's input specifications). If out of the range, please adjust the voltage to the acceptable range. |

NOTE:
If the above possible causes are eliminated but the fault status still exists, please contact service personnel.

9 Technical Specifications

| Model No. | | PDB2211A250035 | PDB2211A251035 |
|-------------------------|-----------------------------|-------------------------------------|----------------|
| Input | Voltage Range | High Loss | 325± 10 Vac |
| | | High Recovery | 315± 10 Vac |
| | | Low Loss | 55± 10 Vac |
| | | Low Recovery | 65± 10 Vac |
| Voltage Frequency Range | | 40 ~ 70 Hz | |
| Current (Max.) | | 10A | 16A |
| Connection | | 1 x IEC C14 | 1 x IEC C20 |
| Output | Voltage Range | Synchronized with the input voltage | |
| | Current | Synchronized with the input current | |
| | Connection | 1 x IEC C13 | 1 x IEC C19 |
| Compliance | IEC Pollution Degree (PD) | PD 2 | |
| | Over Voltage Category (OVC) | OVC II | |
| Environment | Operating Temperature | 0 ~ 40°C (32 ~ 104°F) | |
| | Storage Temperature | -15 ~ 50°C (5 ~ 122°F) | |
| | Relative Humidity | 5-95% RH (non-condensing) | |
| Physical | Dimensions (W x D x H) | 290 x 75 x 43.5 mm | |
| | Weight | 0.82 Kg | 0.9 Kg |

NOTE:
1. Refer to the rating label for the safety certification.
2. All specifications are subject to change without prior notification.

10 Warranty

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship within the warranty period. If the product has any failure problem within the warranty period, Seller will repair or replace the product at its sole discretion according to the failure situation.

This warranty does not apply to normal wear or to damage resulting from improper installation, operation, usage, maintenance or irresistible force (i.e. war, fire, natural disaster, etc.), and this warranty also expressly excludes all incidental and consequential damages. Maintenance service for a fee is provided for any damage out of the warranty period. If any maintenance is required, please directly contact the supplier or Seller.

WARNING:
The individual user should take care to determine prior to use whether the environment and the load characteristic are suitable, adequate or safe for the installation and the usage of this product. The Quick Guide must be carefully followed. Seller makes no representation or warranty as to the suitability or fitness of this product for any specific application.

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