

# USER MANUAL EXTERNAL MAINTENANCE BYPASS SWITCH

for UPS XANTO 10,000 – 20,000 VA, 3/3-phase

Version: 07/2025



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# USER MANUAL EXTERNAL MAINTENANCE BYPASS SWITCH

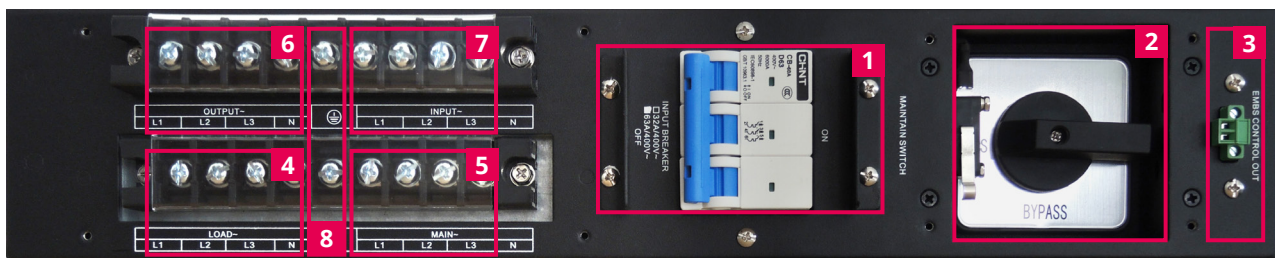
for UPS XANTO 10,000 – 20,000 VA, 3/3-phase

## 1 Introduction

The module is used as an external maintenance bypass switch (Art.-No. HU10-20kVA33-RACK) to provide continuous power without shutting down the connected loads during UPS scheduled maintenance or battery replacement. It is perfect to use in conjunction with 3-phase in/out 10/20 kVA UPS.

The module can be installed in a 19" rack.

## 2 Product Overview



- |  |                           |
|--|---------------------------|
| 1. UPS Input Breaker   | 5. Utility input terminal |
| 2. Maintenance bypass switch (with Maintenance switch cover) | 6. UPS output terminal    |
| 3. Control output signal connector                           | 7. UPS input terminal     |
| 4. Output terminal   | 8. Grounding terminal     |

### Technical data

<b>Dimensions</b>	88 x 440 x 195 mm (height x width x depth)
<b>Weight</b>	3.8 kg

### 3 Installation

#### Inspection

Unpack the package and check the package contents. The shipping package contains:

- 1 x External maintenance bypass switch
- 1 x Quick guide
- 1 x Control signal cable

**PLEASE NOTE**

Before installation, please inspect the unit. Be sure that nothing inside the package is damaged during transportation. Do not turn on the unit and notify the carrier and dealer immediately if there is any damage or lacking from some parts. Please keep the original package in a safe place for future use.

#### Initial Setup

The Installation and wiring must be performed in accordance with the local electric laws / regulations and execute the following instructions by professional personnel.

- 1) Make sure the mains wire and breakers in the building are enough for the rated capacity of UPS to avoid the hazards of electric shock or fire.

**PLEASE NOTE**

Do not use the wall receptacle as the input power source for the UPS, as its rated current is less than the UPS's maximum input current. Otherwise, the receptacle may be burned and destroyed.

- 2) Switch off the mains switch in the building before installation.
- 3) Turn off and shut down the connected UPS.
- 4) Prepare wires based on the following table:

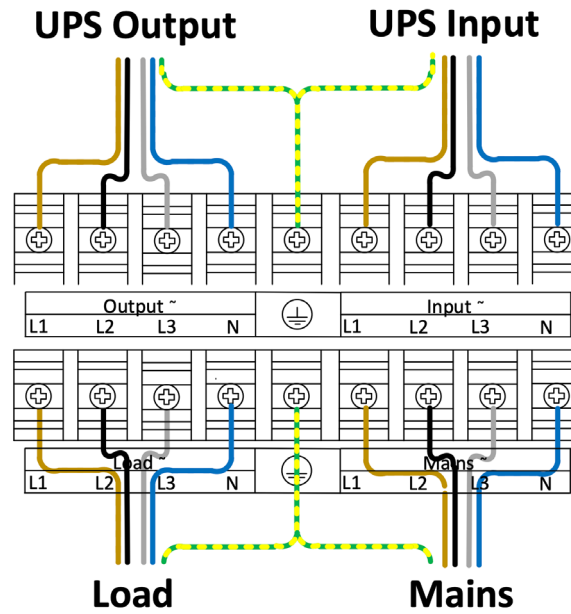
UPS Model	Wire Spec (AWG)
10 kVA UPS	12
20 kVA UPS	10

**PLEASE NOTE**

All wire requirements are in accordance with the line diameter provided in the table. The selections for color of wires should be followed by the local electrical laws and regulations.

- 5) Remove the terminal block cover on the rear panel of the module. Then connect the wires according to the following terminal block diagrams: **Connect UPS and External Maintenance Bypass Switch.** Remove the terminal block cover on the rear panel of the module. Then connect output terminals of

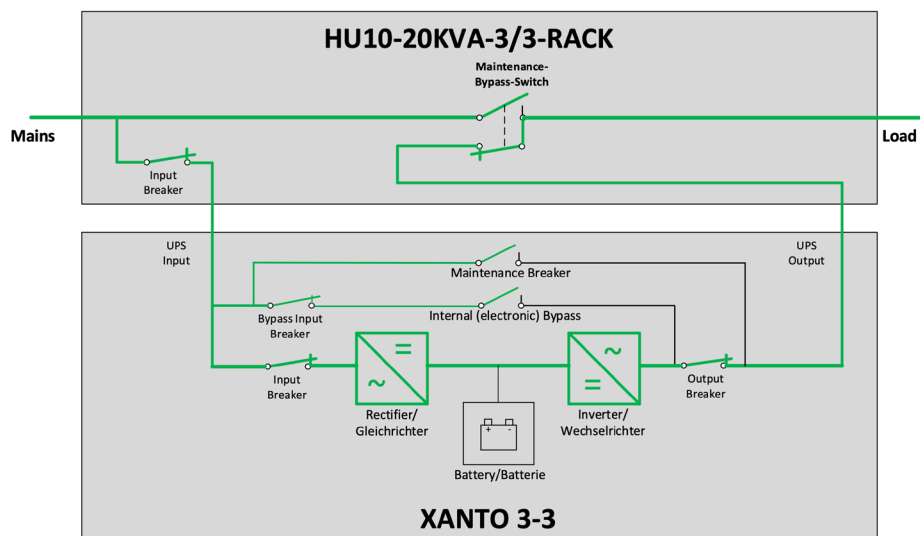
UPS to output terminals of switch module. Connect utility input terminals of UPS-to-UPS input terminals of switch module. Connect signal slots of UPS and switch module with control signal cable attached to the package.



## 4 Operation

### Normal operation

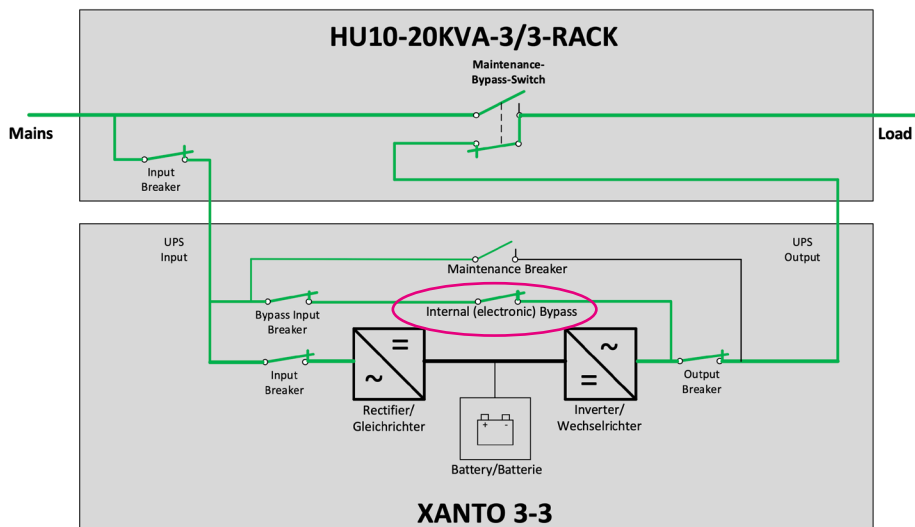
Load is supplied by UPS via rectifier and inverter



## Transfer to Bypass Operation

**Step 1** – switch UPS to internal Bypass (please refer to UPS manual)

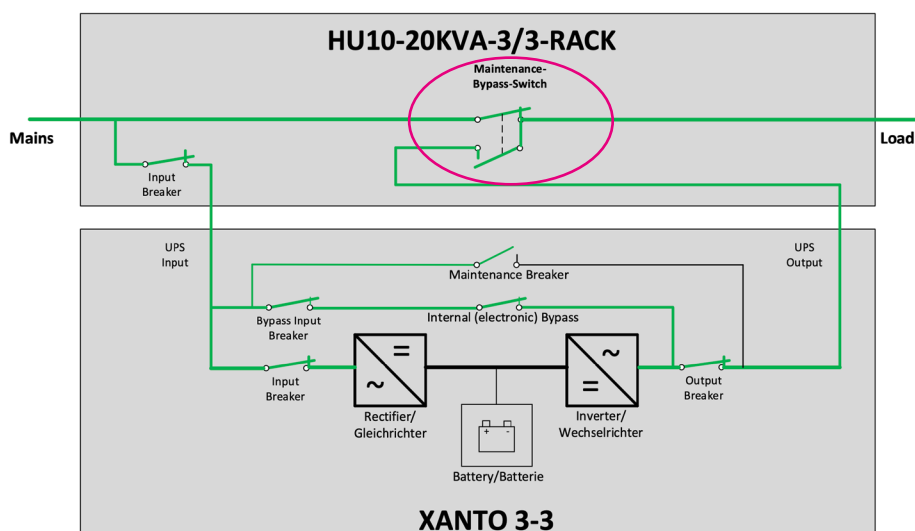
Load is supplied direct from UPS input



**Step 2** – open the maintenance switch cover

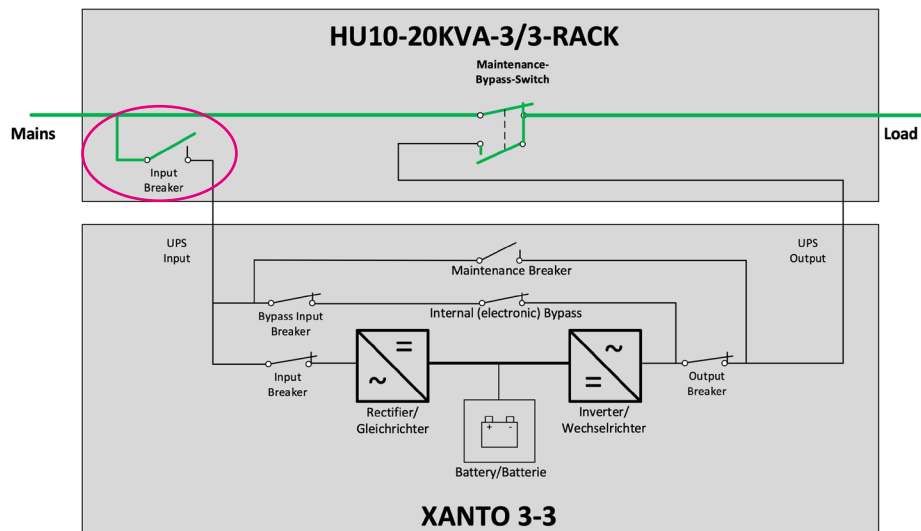
then turn External Maintenance Bypass Switch on HU10-20KVA-3/3-RACK to BYBASS position

Load is supplied direct from Mains via HU10-20KVA-3/3-RACK



**Step 3** – switch UPS Input Breaker on HU10-20KVA-3/3-RACK to position OFF

Load is supplied direct from Mains via HU10-20KVA-3/3-RACK – UPS is OFF



## Transfer to Normal Operation

**Step 1** – switch UPS Input Breaker on HU10-20KVA-3/3-RACK to position ON

**Step 2** – turn Maintenance Bypass Switch on HU10-20KVA-3/3-RACK to UPS position then close the maintenance switch cover

**Step 3** – switch UPS to Normal Operation (please refer to UPS manual)

## 5 Specification of Critical Components

Model		10 kVA UPS	20 kVA UPS
Parameter		Max.	Max.
<b>Input breaker (each pole)</b>	Current	25 A	40 A
	Voltage	400 V	400 V
<b>Bypass switch</b>	Current	25 A	40 A
	Voltage	400 V	400 V
<b>Input / Output terminal</b>	Current	32 A	40 A
	Voltage	400 V	400 V

## 6 Support

ONLINE USV-Systeme AG (ONLINE) is one of the leading manufacturers of uninterruptible power supplies (UPS). Since 1988, the German company has focussed on the development, production, sale and support of UPS systems. Based on unit numbers sold, ONLINE products are the German number one in the UPS market and internationally recognised because of their top quality and excellent support.

As a German provider, ONLINE guarantees direct approachability, simple processing and short response times. Comprehensive support is a matter of course – before and after purchase.

### **ONLINE sets great store by reliable support and service.**

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Phone: +49 (0)89 242 39 90-17
- Free 24 h advance exchange
- Interactive UPS configurator online or as app
- Optional extended warranty
- Unbureaucratic 14 day money-back guarantee
- Excellent product availability and wide network of distributors

**Further information:** > [www.online-ups.com](http://www.online-ups.com)

## 7 Warranty

ONLINE USV-Systeme AG (ONLINE) guarantees that this product will be free of material and production faults for a period of three years from the purchase date. ONLINE's obligation in accordance with this guarantee is restricted to the repair or replacement (at ONLINE's discretion) of any faulty products. Before warranty claims can be asserted, a Returned Material Authorization (RMA) number must be obtained from customer services. Products must be returned with the postage paid by the sender, a brief description of the problem and evidence of the place and date of purchase. This warranty does not apply to devices damaged by accidents, negligence or misuse or those which have otherwise been altered or modified.

Apart from the above exceptions, ONLINE accepts no explicit or tacit warranty, including a guarantee of conventional quality or suitability for a specific purpose. In some jurisdictions, the restriction or exclusion of tacit guarantees is prohibited, which means that the restrictions or exclusions above may not apply to the purchaser.

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## Imprint

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