

VER. 2206.22
ENGLISH

**USER MANUAL
MBS 3KW**

MAINTENANCE BYPASS MODULE (3KVA)

**Tower Model (Desktop) MBS-T3
Rack Model MBS-R3**

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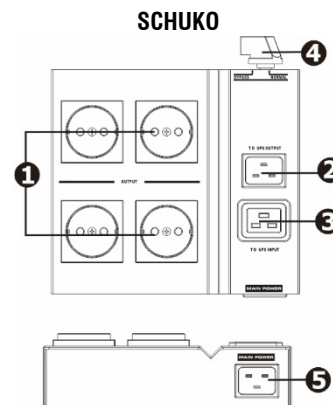
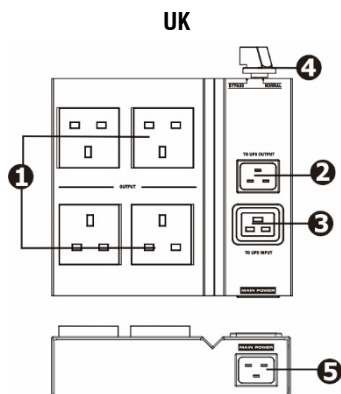
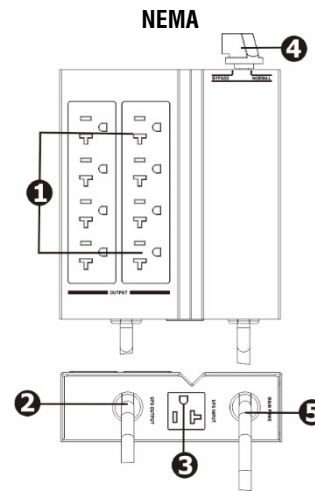
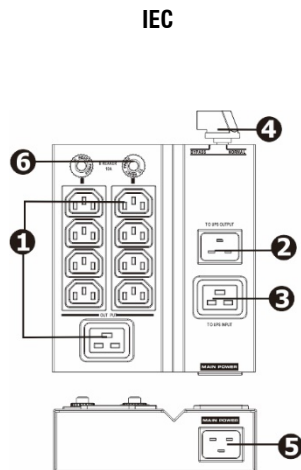
Tower Model (Desktop) MBS-T3

1. INTRODUCTION

The product is used as an external power distribution unit in conjunction with UPS systems or large-scale voltage regulators. It allows to manually transfer the connected equipment to utility power via a bypass switch, permitting scheduled maintenance or UPS replacement without power interruption.

2. PRODUCT OVERVIEW: IEC, NEMA, UK, SCHUKO OUTLETS – PARTS IDENTIFICATION

Parts identification for all available versions:



- 1- Output receptacle
- 2- Socket for UPS output
- 3- Socket for UPS input
- 4- Bypass switch
- 5- AC input
- 6- Circuit breaker

3. INSTALLATION AND OPERATION

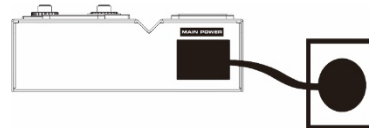
Inspection

Remove the unit from the shipping package and inspect it for damage that may occur during transportation. Notify the carrier and place of purchase if any damage is found. Shipping package contains:

- Maintenance bypass switch module x 1
- Quick guide x 1
- Mains power cord x 1

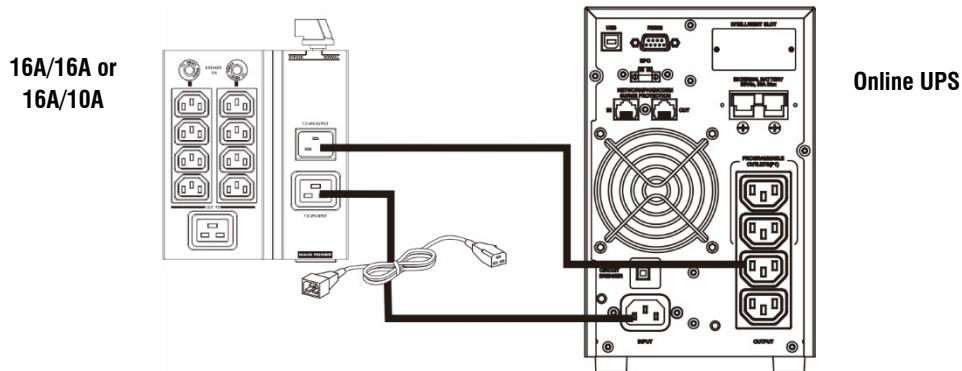
Connect to wall outlet:

Plug the input power cord of the unit to the wall outlet.



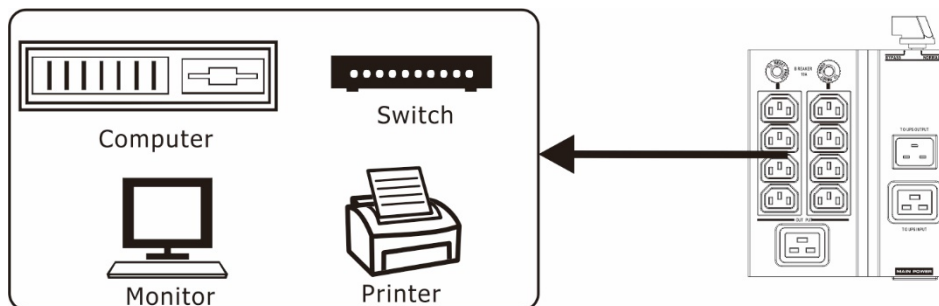
Connect UPS

Connect a power cord from UPS input to UPS input socket on the unit. Use one power cord to connect UPS output to UPS output socket on the unit. See “UPS Input” and “UPS Output” in section 2 “Parts Identification”



Connect Equipment

Connect all equipment to output of the unit. Please refer to below chart for detailed equipment connection.



4. OPERATION

Transfer to Maintenance Bypass

Before transferring to maintenance bypass, make sure the utility is normal. Transfer the rotary bypass switch from “Normal” to “Bypass”. At this time, all connected devices are powered by the utility power directly. You may turn off the UPS and disconnect two cables connecting to UPS. Then, you may service the UPS.

Transfer to UPS Protection

After maintenance service is done, make sure the UPS operation is normal. Then, reconnect UPS to the unit by following Installation Section. Then, transfer the rotary bypass switch from “Bypass” to “Normal”. Now, all connected devices are protected by UPS.

5. IMPORTANT SAFETY WARNING (SAVE THESE INSTRUCTIONS)

To safely operate this unit, please read and follow all instructions carefully. Read this manual thoroughly before attempting to unpack, install, or operate. You may keep this quick guide for further reference.

CAUTION: The product must be used indoor only.

CAUTION: Do not place the unit near liquid or in an excessively damp environment.

CAUTION: Do not place the product directly in the sun or near a hot source.

CAUTION: Do not let liquid or foreign objects enter the product.

CAUTION: Ground the product using a 2P + ground sockets.

CAUTION: When installing the product, ensure that the sum of the leakage currents of the product and the devices it supplies not exceed 3.5mA.

6. TECHNICAL SPECIFICATIONS

Current Rating / Corriente Nominal	16A max. for/para 208/220/230/240 VAC
	20A max. For/para 110/115/120/127 VAC
Voltage Rating / Voltaje Nominal	208/220/230/240 VAC or/o 110/115/120/127 VAC

Connections / Conexiones

Input / Entrada	Entrada AC	1 x IEC (16 A) y 1 Power Cord/Cable de Alimentación
	Entrada UPS	1 x Outlet/Toma IEC (16A - 10A IEC for/para 1K/2K, 16A - 16A IEC for/para 3K)
	Salida UPS	1 x Outlet/Toma IEC (16A - 10A IEC for/para 1K/2K, 16A - 16A IEC for/para 3K)
Output / Salida	IEC	8 x Outlets/Tomas IEC 10A + 1 x Outlet/Toma IEC 16A (2 Breakers)
	SCHUKO	4 x Outlets/Tomas Schuko 16A
	UK	4 x Outlets/Tomas UK 13A
	NEMA	8 x Outlets/Tomas NEMA 20A

Physical / Físicas

Dimensions / Dimensiones (Pr x An x Al mm)	IEC	180 x 160 x 50
	SCHUKO	180 x 200 x 50
	UK	180 x 200 x 50
	NEMA	180 x 160 x 50
Net Weight / Peso Neto (kgs)		1.3

Environmentals / Ambientales

Operation Temp. / Temp. de Operación	0 - 45 °C
Humidity / Humedad	20 - 90% (Non-Condensing / No condensante)



Rack Model (Rack/Wall) MBS-R3

1. INTRODUCTION

This product is used as an external power distribution unit in conjunction with UPS systems or large-scale voltage regulators. It allows to manually transfer the connected equipment to utility power via a bypass switch, permitting scheduled maintenance or UPS replacement without power interruption. Combined power distribution feature and the master-controlled design, it provides maintenance bypass function and power saving inside a rack mechanism.

Rack Mount/Wall Mount

This module can be installed in a 19" enclosure or wall. Please follow below chart for rack/wall mount installation.

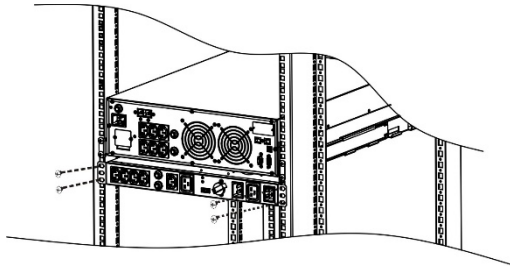


Figura 1: Rack mounting

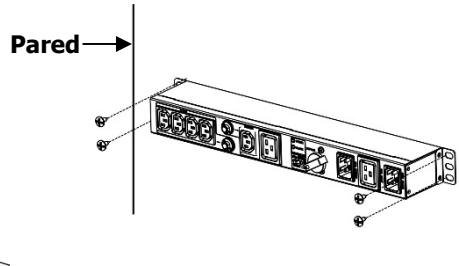
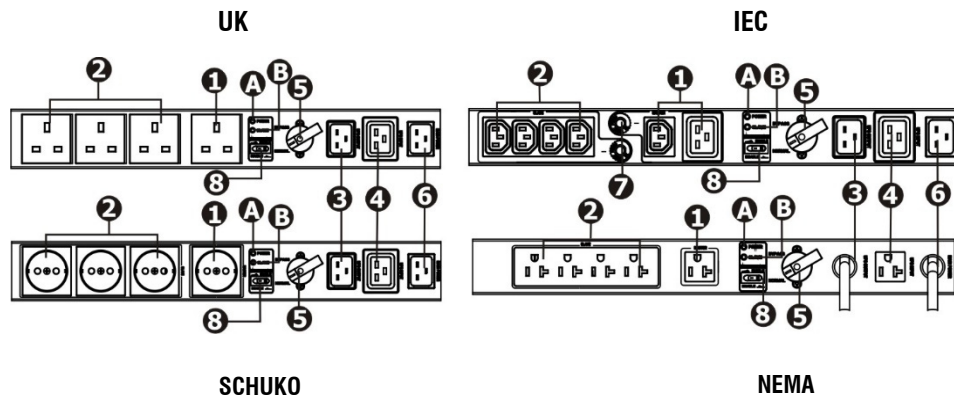


Figura 2: Wall mounting

2. PRODUCT OVERVIEW: IEC, NEMA, UK, SCHUKO OUTLETS – PARTS IDENTIFICATION

Parts identification for all available versions:



- 1- Master output receptacle (For a PC)
- 2- Slave output receptacles for peripherals
- 3- Socket for UPS output
- 4- Socket for UPS input
- 5- Bypass Switch

- 6- AC Input
- 7- Breaker
- 8- **Master/Slave** function switch
- A- Power LED
- B- **Slave Outlets** On LED

3. INSTALLATION AND OPERATION

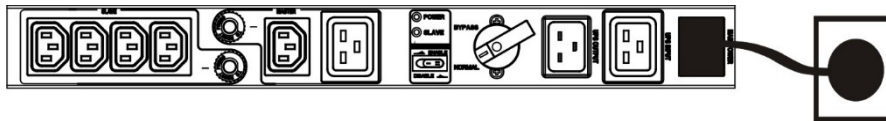
Inspection

Remove the unit from the shipping package and inspect it for damage that may occur during transportation. Notify the carrier and place of purchase if any damage is found. The shipping package contains:

- Maintenance bypass switch module x 1
- Quick guide x 1
- Mains power cord x 1
- Screws and mounting ears

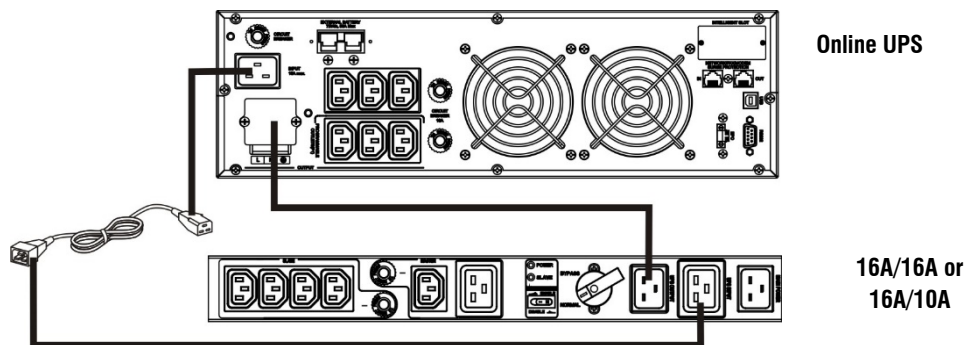
Connect to the Wall Outlet:

Plug the input power cord of the unit to the wall outlet. The Power LED will light up when the mains is normal. Power LED will be off while power failure.



Connect UPS

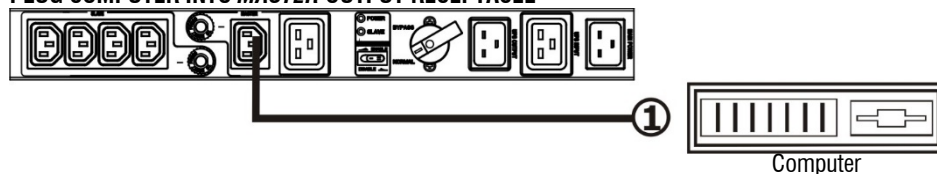
Connect a power cord from UPS input to UPS input socket on the unit. Use one power cord to connect UPS output to UPS output socket on the unit. See “UPS Input” and “UPS Output” in section 2 “Parts Identification”



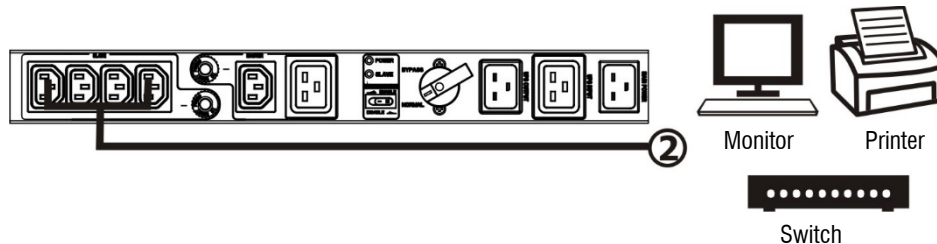
Connect Equipment

There are two types of output receptacles: Master, and Slave. To save power consumption, the unit is equipped with Master and Slave output receptacles. The Master output receptacle will sense if master device (computer) is on. If the master device is no longer drawing current, it will automatically shut down the power to the Slave output receptacles. Please refer to below charts for detailed equipment connection.

PLUG COMPUTER INTO MASTER OUTPUT RECEPTACLE



PLUG PERIPHERALS INTO SLAVE OUTPUT RECEPTACLES



NOTE: When the computer is turned off, the Master output receptacle shuts off power to the slave output receptacles. However, when the computer goes into “sleep mode” or the power consumption of connected device to Master output receptacle is below 20 W, the Master output receptacle may not properly recognize the reduced power level.

4. OPERATION

Transfer to Maintenance Bypass

Before transferring to maintenance bypass, make sure the Power LED is lighting. Transfer the rotary bypass switch from “Normal” to “Bypass”. At this time, all connected devices are powered by the utility power directly. You may turn off the UPS and disconnect two cables connecting to UPS. Then you may now service the UPS.

Transfer to UPS Protection

After maintenance service is done, make sure the UPS operation is normal. Then, reconnect UPS to the unit by following Installation Section. Verify the Power LED is lighting. Then transfer the rotary bypass switch from “Bypass” to “Normal”. Now, all connected devices are protected by UPS.

Master/Slave Function Operation

After connecting all devices to the unit, press “Master/Slave switch” to enable status (⏏). The Slave On LED will light up when connecting load on master output is above 20W. Press “Master/Slave switch” to disable status (⏏), the function is disabled and the Slave On LED will be on.

Status & Indicator Table

Status	Indicator
1. Utility is normal.	Power LED (Green) on
2. Utility fails but UPS is providing power.	
Utility failure	Power LED (Green) off
Master/Slave function is enabled and the connecting load on master output is above 20W.	Slave On LED (Yellow) on
Master/Slave function is enabled and the connecting load on master output is below 20W.	Slave On LED (Yellow) off
Master/Slave function is disabled.	Slave on LED (Yellow) on

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Voltage Rating / Voltaje Nominal	208/220/230/240 VAC or/o 110/115/120/127 VAC	
Master/Slave Function Función Maestro/Esclavo	Consumption in Master Outlet < 20W (+/- 5W), shutdown Slave Outlets Consumo en Salida Maestra <20W (+/- 5W), apaga las Salidas Esclavas	
Connections / Conexiones		
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