

Data Sheet

Switching Power Supply for PoE+/++ Micro Switches



High Efficiency

Efficiency of > 90 %



Compact Dimensions

High performance for limited installation space



Fanless Design

No noise emission, minimized maintenance



For PoE PSE+/++ Devices (IEEE 802.3af/at/bt)

Preferred choice of power supplies for the deployment of PoE PSE supported FTTO

Characteristics

Common Properties

- Designed to support MICROSENS Micro Switches and Desktop Switches with PoE PSE function
- Wide-range AC input 115..230 VAC
- AC indication LED
- Output voltage: 54 DC
- Fully regulated and protected output
- Overvoltage and overload protection
- DC output connection: fixed cable with Mini-Combicon-plug
- Cable lengths: 1m
- No noise and no mechanical wear off through fanless operation

Desktop Power Supply



- Unfastened use, e.g. at the workplace
- Protective insulation
- Black plastic case
- 65 W DC Output power to support Micro Switches and Desktop Switches with PoE PSE function according to IEEE 802.3af/at
- Euro connector at AC input
- Article reference: MS700731

Installation Power Supply



- For fixed installation, e.g. in cable ducts, floor tanks or underfloor spaces
- Screw-on points for fixed mounting of the power supply unit
- Looped through functional ground Black plastic case
- Available output power variants:
 - 65 W DC to support Micro Switches and Desktop Switches with PoE PSE function according to IEEE 802.3af/at
 - Article reference: MS700741
 - 150 W DC to support Micro Switches with PoE PSE function according to IEEE 802.3af/at/bt
 - Article reference: MS700743
- 3x 1.5 mm² open cable ends with electric wire ferrules at AC input
- Variants available with mounting frames and different DC connectors; see section Order Information

Characteristics (continued)

Micro Power Supply



- Fixed deployment in e.g. cable ducts
- Snap-in mounting 45 mm (without screw fastening)
- Looped through functional ground
- 150 W DC power output to support MICROSENS Micro Switches with PoE PSE function according to IEEE 802.3af/at/bt
- Best support of IT service management processes through independent control LEDs indicating the availability of AC input and DC output voltage
- Aluminium housing cover that visually matches the style of the MICROSENS Micro Switches in M45 design; plastic case bottom
- Compatible with common electrical installation systems via adapter frames
- 3-pin screw connector at AC input
- Article reference: MS700751

Technical Specifications

| Specification | Desktop Power Supply | Installation Power Supply | Installation Power Supply | Micro Power Supply |
|------------------------------|----------------------|---------------------------|---------------------------|--------------------|
| General | | | | |
| Primary Mounting Type | unfixed | permanent mounting | | |
| Visibility | visible | visible, hidden | | visible |
| Article Reference | MS700731 | MS700741 | MS700743 | MS700751 |

Technical Specifications (continued)

| Specification | Desktop Power Supply | Installation Power Supply | Installation Power Supply | Micro Power Supply |
|---------------------------------|--|---|---------------------------|------------------------|
| Power Supply Input (AC) | | | | |
| Input Voltage | 115..230 VAC / 47..63 Hz | | | |
| Input Current | max. 1.5 A | | | |
| Inrush Current | 60 A | | | |
| Efficiency | > 90 % (full load at 230 VAC, 25 °C) | | | |
| Idle Consumption | < 0.5 W at 230V/50 Hz | | | |
| Grounding | n/a | Functional ground, isolated looped through between in- & output | | |
| Connector | Euro-8 | open cable ends with wire ferrules | | 3-pin screw connector |
| Included Cable | Euro-8 power cord, 1 m, 2x 0.75 mm ² | Permanently fixed, 1 m, 3x 1.5 mm ² | | n/a |
| Connector Variant | n/a | see <i>Ordering Information</i> | | n/a |
| Power Supply Output (DC) | | | | |
| Output Voltage | 54 VDC | | | |
| Output Current | max. 1.2 A | max. 1.2 A | max. 2.8 A | max. 2.8 A |
| Output Power | 65 W | | 150 W | |
| Output Protection | Overvoltage | | | |
| Output Ripple | < 200 mV | | | |
| Connector | Mini-Combicon-plug on fixed cable | | | |
| Cable | 1 m, 2x 0.75 mm ² | 1 m, 3x 0.75 mm ² | | |
| Environmental Conditions | | | | |
| Temperature | <i>Operation:</i> 0..+50 °C <i>Storage:</i> -40..+85 °C | | | |
| Humidity | 5..95 %, non-condensing | | | |
| Mechanical | | | | |
| Dimensions / mm | 135.3 x 42 x 30.5 | 150 x 44 x 30 | | 135 x 45 x 48 |
| Weight (approx.) | 235 g | 335 g | 415 g | 395 g |
| Housing Material | Plastic | | | Alumin. alloy, plastic |
| Reliability | | | | |
| MTBF | > 100.000 h | | | |
| Standards | | | | |
| CE EMC | 2014/30/EU | | | |
| CE LVD | 2014/35/EU | | | |
| CE RoHS | 2011/65/EU | | | |
| Safety | EN 62368-1 | | | |
| Emitted Interference | EN 55032, EN 61000-3-2/3 | | | |
| Immunity | EN 55024, including EN 61000-4-2/3/4/5/6/8/11 | | | |

Dimensions (in mm)

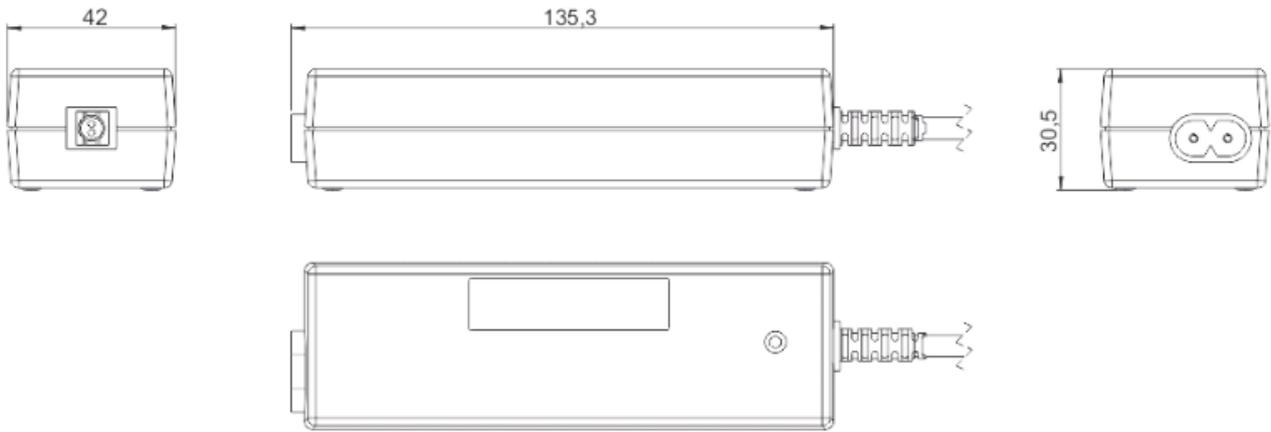


Figure 1. Desktop Power Supply

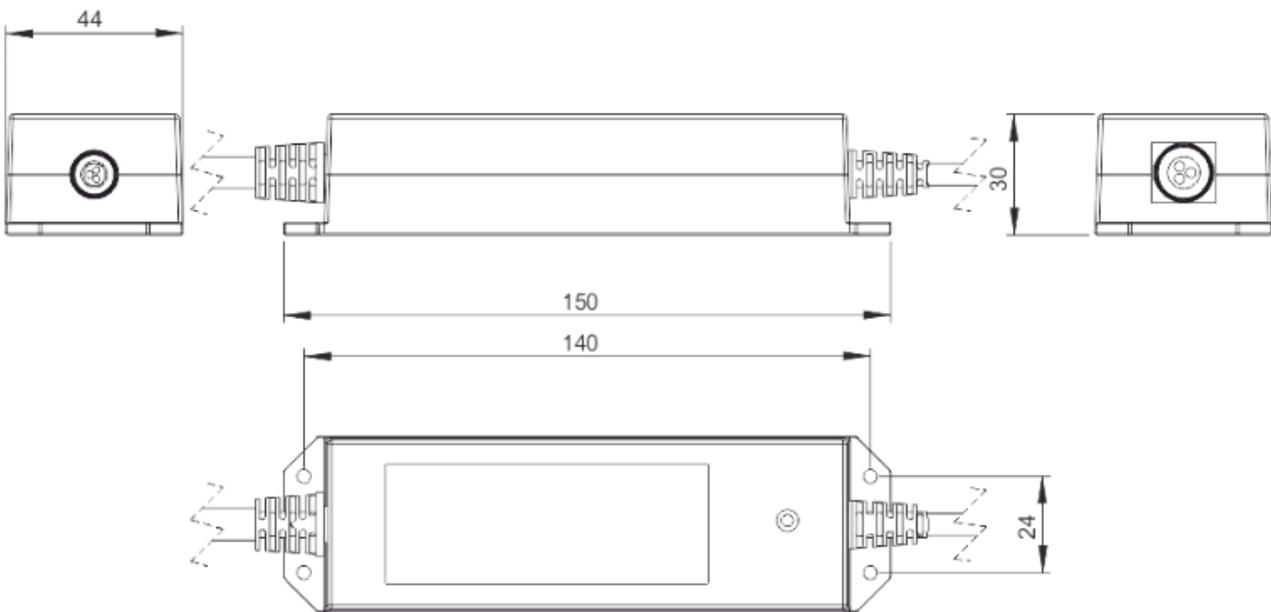


Figure 2. Installation Power Supply

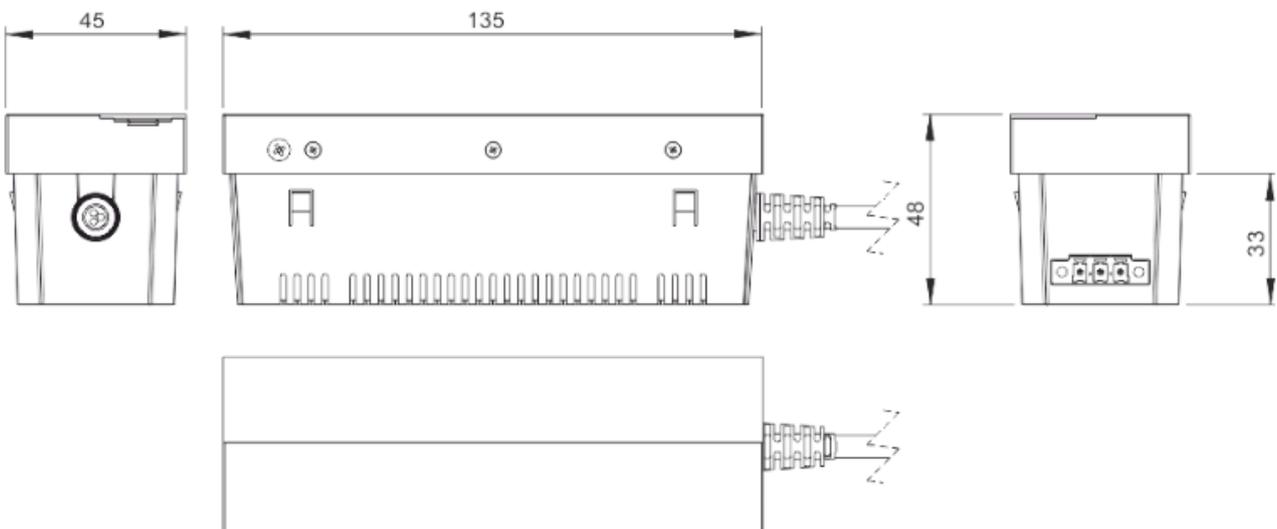


Figure 3. Micro Power Supply

Application Example



Figure 4. Desktop duct including power sockets, Micro Switch and Micro Power Supply MS700751

Ordering Information

| | Description | Art.-No. |
|---|--|------------------------|
| 65 W Desktop power supply for PoE+ Micro Switches | | |
| | Desktop power supply for PoE+ Switches, 65W prim. 115..230VAC, Euro-8 power cord, sec. 54VDC / 1.2A, 1m, Combicon-con | MS700731 |
| 65 W Installation power supply for PoE+ Micro Switches | | |
| | Installation Power Supply PoE+ 65W prim. 115..230VAC, 3x 1.5mm ² 1m, sec. 54VDC / 1.2A, 1m, Combicon-con. | MS700741 |
| | Installation Power Supply PoE+ 65W prim. 115..230VAC, 3x 1.5mm ² 1m, sec. 54VDC / 1.2A, 1m, Combicon-con. adapted for C-profile / 35mm DIN-Rail | MS700741-UNI |
| | Installation Power Supply PoE+ 65W prim. 115..230VAC, 3x 1.5mm ² 1m, WAGO-con., sec. 54VDC / 1.2A, 1m, Combicon-con. adapted for C-profile / 35mm DIN-Rail | MS700741-UNI-WG |
| | Installation Power Supply PoE+ 65W prim. 115..230VAC, 3x 1.5mm ² 1m, WAGO-con., sec. 54VDC / 1.2A, 1m, Combicon-con. | MS700741-WG |
| | Installation Power Supply PoE+ 65W prim. 115..230VAC, 3x 1.5mm ² 1m, GST18-con., sec. 54VDC / 1.2A, 1m, Combicon-con. adapted for C-profile / 35mm DIN-Rail | MS700741-WL |
| 150 W Installation power supply for PoE++ Micro Switches | | |
| | Installation Power Supply PoE+ 150W prim. 115..230VAC, 3x 1.5mm ² 1m, sec. 54VDC / 2.8A, 1m, Combicon-con. | MS700743 |
| | Installation Power Supply PoE+ 150W prim. 115..230VAC, 3x 1.5mm ² 1m, sec. 54VDC / 2.8A, 1m, Combicon-con. adapted for C-profile / 35mm DIN-Rail | MS700743-UNI |
| | Installation Power Supply PoE+ 150W prim. 115..230VAC, 3x 1.5mm ² 1m, WAGO-con., sec. 54VDC / 2.8A, 1m, Combicon-con. adapted for C-profile / 35mm DIN-Rail | MS700743-UNI-WG |
| | Installation Power Supply PoE+ 150W prim. 115..230VAC, 3x 1.5mm ² 1m, WAGO-con., sec. 54VDC / 2.8A, 1m, Combicon-con. | MS700743-WG |
| | Installation Power Supply PoE+ 150W prim. 115..230VAC, 3x 1.5mm ² 1m, GST18-con., sec. 54VDC / 2.8A, 1m, Combicon-con. adapted for C-profile / 35mm DIN-Rail | MS700743-WL |

Ordering Information (continued)

| | Description | Art.-No. |
|--|--|-----------------|
| | 150 W Micro power supply for PoE++ Micro Switches | |
| | Micro Power Supply PoE+/++ 150W prim. 115..230VAC, Combicon-con., M45-design, sec. 54VDC / 2.8A, Combicon-con., 1m | MS700751 |

Accessories

| | Description | Art.-No. |
|--|--|---------------------|
| | Mounting adapters | |
| | Mounting adapter MS70074x adapted for front-mounted steel trunkings 80mm (power supply not included) | MS140078-F |
| | Magnetic mounting adapter MS700741x (power supply not included) | MS140078-MAG |
| | Mounting adapter MS70074x adaptation for C-profile / 35mm DIN-Rail | MS140078-UNI |
| | Sockets for specific primary connectors | |
| | WAGO-WINSTA® MIDI socket, matching the WAGO connector used in MS70074x-UNI-WG, MS70074x-WG | MS190261-F |
| | Wieland Gesis connection socket, matching the Wieland Gesis connector used in MS70074x-WL | MS190260-F |

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Document ID: DAT-EN-MS700731-74x-Switching-PowerSupply-PoE+-MicroSwitches_v1.0

Date of Issue: 2026-02-27