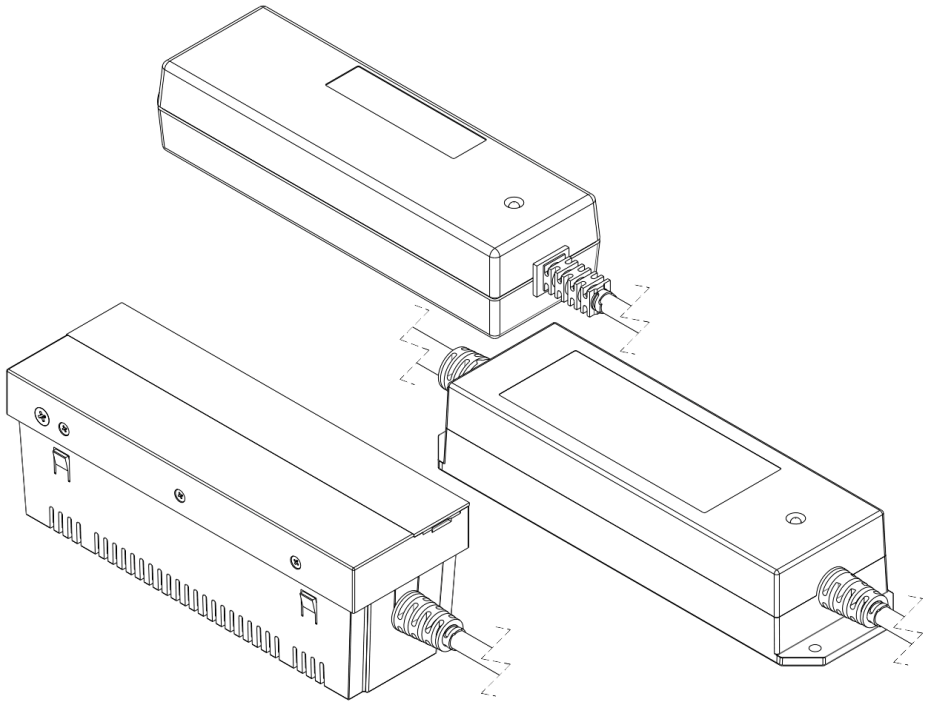
MICROSENS

Data Sheet
Switching Power Supplies for PoE+/++ Micro Switches



Description

Our new family of compact switching power supply units is the ideal solution for powering MICROSENS Micro and Desktop Switches with PoE PSE function according to IEEE 802.3af/at/bt.

The portfolio offers variants for flexible positioning on the desktop as well as for compact and reliable mounting in device installation ducts, underfloor tanks as well as in cavity, surface and flush mounted structures. The optimal price/performance level makes this compact power supplies the preferred choice for the deployment of PoE PSE supported Fiber-to-the-Office infrastructures (FTTO).

Features

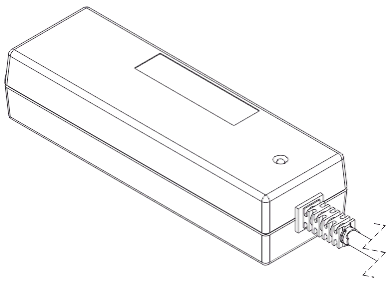
- Compact supplies for PoE PSE+/++ devices according to IEEE 802.3af/at/bt
- Deployment on desktops, in cable ducts, floor tanks or underfloor
- High efficiency of > 90 % (typ.)
- Input voltage range of 115..230 VAC
- Fully regulated and protected output
- Output voltage: 54 VDC
- Output power: up to max. 150 W

Characteristics

Common Properties

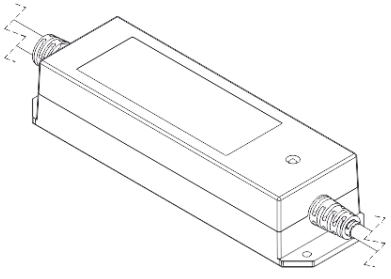
- Designed to support MICROSENS Micro Switches and Desktop Switches with PoE PSE function
- Wide-range AC input 115..230 VAC
- AC indication LED
- Output voltage: 54 DC
- Fully regulated and protected output
- Overvoltage and overload protection
- DC output connection: fixed cable with Mini-Combicon-plug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

Desktop Power Supply



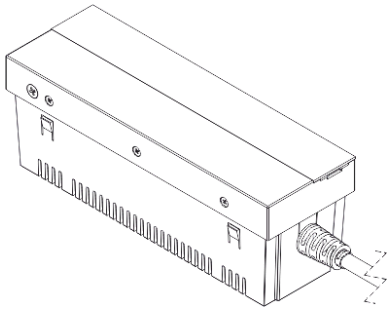
- Unfastened use, e.g. at the workplace
- Protective insulation
- Black plastic case
- 65 W DC Output power to support Micro Switches and Desktop Switches with PoE PSE function according to IEEE 802.3af/at
- Euro connector at AC input
- Article reference: MS700731

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: MS700742
- 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

Micro Power Supply



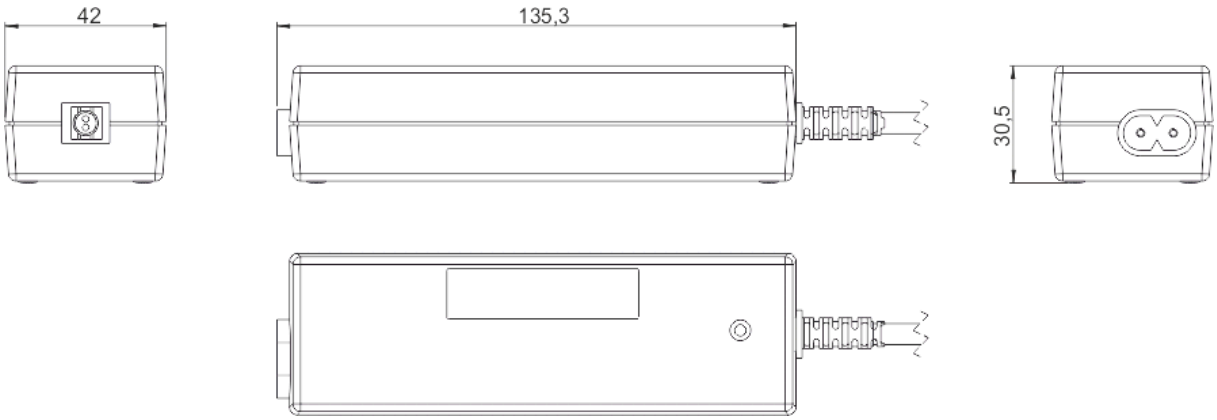
- Fixed deployment in e.g. cable ducts
- Snap-in mounting 45 mm (without screw fastening)
- Looped through functional ground
- 150 W DC power output to support MICROSENS Micro Switches with PoE PSE function according to IEEE 802.3af/at/bt
- Best support of IT service management processes through independent 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

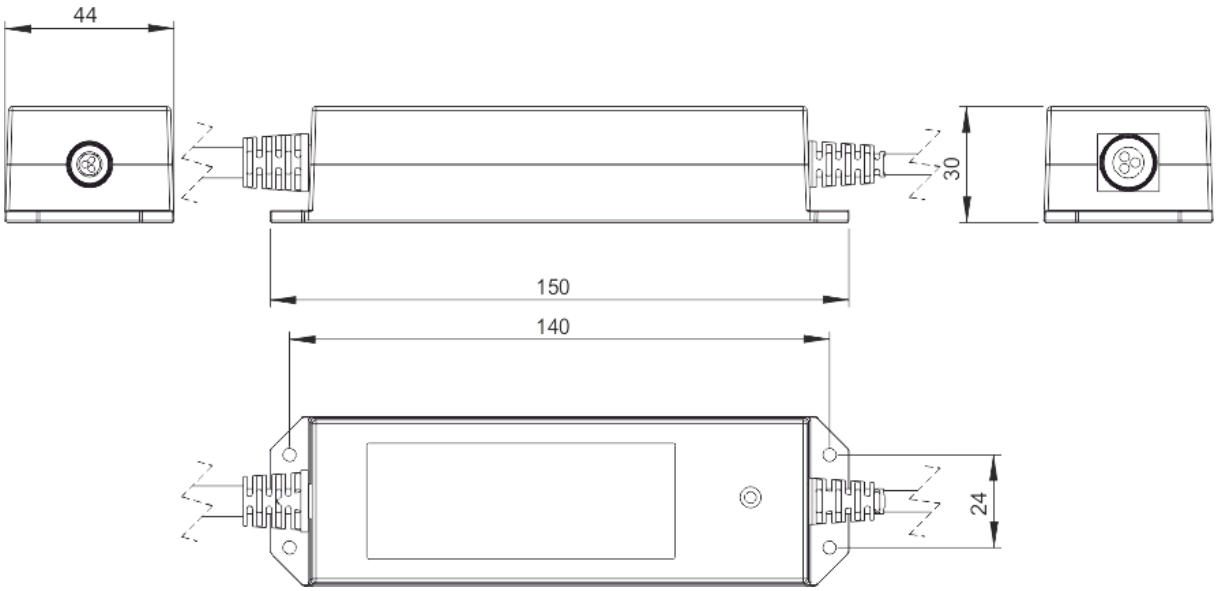
Designation	Desktop Power Supply	Installation Power Supply	Installation Power Supply	Micro Power Supply
General				
Primary mounting type	unfixed	permanent mounting		
Visibility	visible	visible, hidden		visible
Article reference	MS700731	MS700741	MS700742	MS700751
Power Supply Input (AC)				
Input voltage	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 mm²	Permanently fixed, 1 m, 3x 1.5 mm²		n/a
Connector variant	n/a	see order information		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 mm²	1 m, 3x 0.75 mm²		
Environmental Conditions				
Temperature				
Operation	0..+50 °C			
Storage	-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]

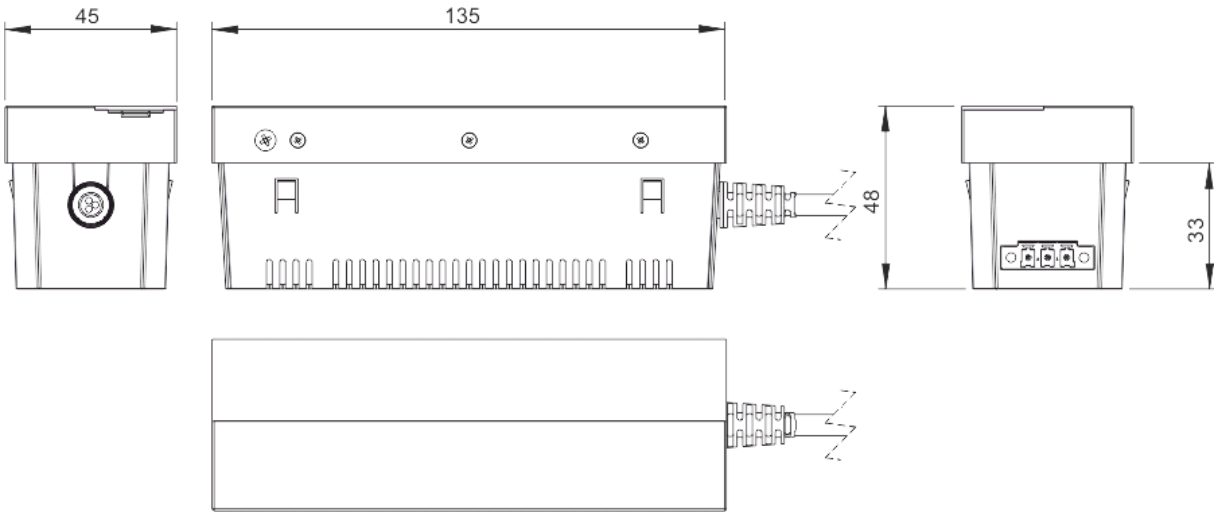
Desktop Power Supply



Installation Power Supply



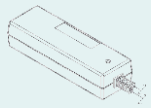
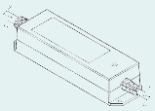
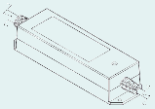
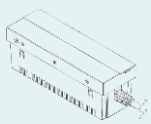
Micro Power Supply



Application Example

Desktop duct including power sockets, Micro Switch and Micro Power Supply MS700751**

Order Information

	Description	Article 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 1.5mm² 1m, sec. 54VDC / 1.2A, 1m, Combicon-con.	**MS700741**
	Installation Power Supply PoE+ 65W prim. 115..230VAC, 3x 1.5mm² 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 1.5mm² 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 1.5mm² 1m, WAGO-con., sec. 54VDC / 1.2A, 1m, Combicon-con.	**MS700741-WG**
	Installation Power Supply PoE+ 65W prim. 115..230VAC, 3x 1.5mm² 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 1.5mm² 1m, sec. 54VDC / 2.8A, 1m, Combicon-con.	**MS700742**
	Installation Power Supply PoE+ 150W prim. 115..230VAC, 3x 1.5mm² 1m, sec. 54VDC / 2.8A, 1m, Combicon-con. adapted for C-profile / 35mm DIN-Rail	**MS700742-UNI**
	Installation Power Supply PoE+ 150W prim. 115..230VAC, 3x 1.5mm² 1m, WAGO-con., sec. 54VDC / 2.8A, 1m, Combicon-con. adapted for C-profile / 35mm DIN-Rail	**MS700742-UNI-WG**
	Installation Power Supply PoE+ 150W prim. 115..230VAC, 3x 1.5mm² 1m, WAGO-con., sec. 54VDC / 2.8A, 1m, Combicon-con.	**MS700742-WG**
	Installation Power Supply PoE+ 150W prim. 115..230VAC, 3x 1.5mm² 1m, GST18-con., sec. 54VDC / 2.8A, 1m, Combicon-con. adapted for C-profile / 35mm DIN-Rail	**MS700742-WL**
	**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	Article 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**

* Full power available under suitable installation conditions only
** Exemplary illustration
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