

Power Supply 48 VDC / 65 W for Power-over-Ethernet - Medical Applications -

MICROSENS

General

For the use of MICROSENS devices with Power-over-Ethernet functionality according IEEE802.3af, this power supply offers a compact solution to be installed into cable trunks, sub-floor systems or wall boxes.

With its extreme small dimensions this power supply can provide up to 65 W at 48 V DC. The high efficiency minimizes the dissipation loss. Additionally the power supply has an excellent over voltage and overload protection.

As an accessory there are different mounting kits available. With these installation kits it is possible to install the power supply into all common cable trunk systems, such as Thorsman, Ackermann or Tehalit.

Features

- Compact power supply, low weight
- Installation into cable trunks and sub-floor boxes
- High efficiency of min. 80%
- 3-pin universal input connector according IEC320 (C14)
- Input voltage 90 - 264 VAC
- Output voltage 48 VDC
- Touch proof 48 Volt connector according VDE
- High output power 65W
- EMB/HF filter for interference suppression according EN55022-B, FCC Part 15 Class B, CISPR22-B
- Fully controlled and protected output
- No-load operation protection: no minimum load required
- Overload protection: at 105 - 125% of the nominal output power
- Over voltage protection

Connectors

48 VDC connector for PoE
45x45 installation switch



AC connector

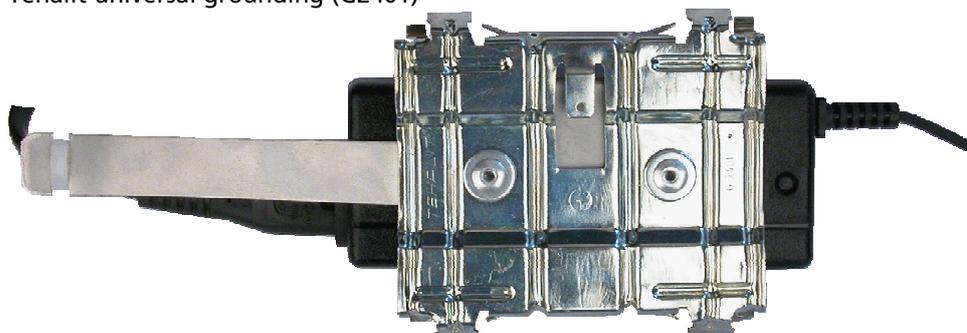
Installation in Tehalit cable trunk

For the installation into BR-netway of the manufacturer Tehalit the power supply is connected on the universal grounding G2401. The advantage of this solution is the easy installation and the mechanical stability.

Rear view with mounted
Tehalit universal grounding (G2401)



Front view with mounted
Tehalit universal grounding (G2401)



Technical Specifications

Type	Switching power supply for MICROSENS Power-over-Ethernet devices	
Input	Nominal voltage	90 - 264 VAC
	Input frequency (AC)	47-63 Hz
Output	Nominal voltage	48 VDC
	Output current	1.35 A
	Nominal power	65 W (70 W Peak)
	Ripple	300 mV
Efficiency	80% (full load at 230 VAC, 25°C)	
Connectors	DC screw terminal 3-pin universal input according IEC320 (C14)	
Protection classes	EN60950, UL1950, CSA 950	
EMC Emission	EN55022 level B, EN61000-4-2	
EMI Compatibility	EN61000-4-3, EN61000-4-4	
Safety Standards	IEC601, EN60601-1-1, UL2601, CSA C22.2 No	
Hold-up time	> 10ms	
Dimensions	133 x 58 x 34 mm (w x d x h)	
Weight	150 g	
Temperatures	Operating:	0 °C to +40 °C
	Storage:	-40 °C to +85 °C
Rel. humidity	up to 95 % non condensing	
Reliability (MTBF)	> 100.000 h (at 25°C according IEC-1709)	

Order Information

Art.-Nr.	Description
MS700680	Switching power supply 48V/1.35A 65W for Power-over-Ethernet devices
MS700680-EKTH	Switching power supply 48V/1.35A 65W for Power-over-Ethernet devices, mounting adapter for Tehalit BR-netway
MS700680-E2	Switching power supply 48V/1.35A 65W for Power-over-Ethernet devices, mounting into E2 installation boxes

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