

Datasheet

Compact 54 VDC Power Supply for PoE+ Switches



Description

The MICROSENS 54 VDC compact power supply was designed for the DC voltage supply of installation devices (Micro Switches) with Power-over-Ethernet (PoE+ PSE) functionality.

The main 230VAC connection on the power supply is made by a standard Euro-8 cable. This ensures a fast and easy connection. Optionally, a direct connection to the mains can be made using appropriate WAGO clamps (MS700701-V).

Depending on the version, the connection on the secondary side is established via a Combicon connector (MS700701, see figure above), a Binder711 connector (MS700701B) or a KYCON connector (MS700701-KY).

Furthermore, a mounting version (MS700701-EKTH) prepared for direct installation in tehalit cable ducts is also available.

Features

- Compact power supply, low weight
- High efficiency of 89 % (typ.)
- Input voltage 90 - 132 VAC and 180 - 264 VAC
- Output voltage 54 VDC
- Rated output current 1.2 A
- Installation in cable ducts and underfloor boxes
- 2 pin universal input connector according to IEC 320 (c8)
- Over current and over voltage protection

Technical Features

General

KYCON-plug
(MS700701-KY)

Type Compact 54 VDC Power Supply
for PoE+ Micro-Switches

Primary power supply (AC)

Input Rated input
115/230VAC
Input voltage range
90..132VAC &
180..264VAC
Input frequency (AC)
47..63Hz

Input current 1,5A (max.)

Efficiency typ. 89%

Connector IEC320 (C8) to Schuko
(MS700701, MS700701-B,
MS700701-KY, MS700701-
EKTH)
IEC320 (C8) to WAGO-Clamps
(MS700701-V) for a direct
230VAC connection with rigid
wire (1.5-2mm²)

Secondary power supply (DC)

Output Nominal output voltage
54VDC
output current: 1,2A
Nominal power output: 65W

**Overvoltage-
protection** 1,35..2A

Connector Combicon plug
(MS700701)

Binder711-plug
(MS700701-B)

Conditions

**operating-
temperature** 0..+40°C

**Storage-
temperature** -40..+85°C

**Rel.
humidity** 5..95% non condensing

Mechanical

Dimensions 107,2mm x 43,8mm x 30mm
(W x D x H)

Weight 170g

**Colour of
housing** black

Reliability

**MTBF
(calculated)** >100.000h
(according to MIL-HDBK-217F)

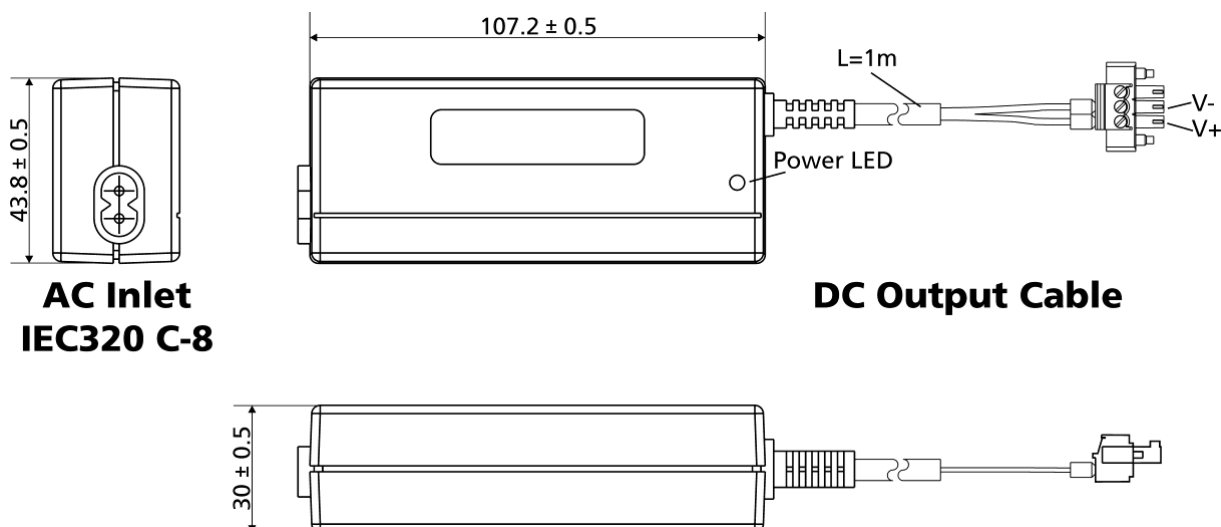
Standards

Safety IEC 60950-1 / EN 60950-1

EMC EN 55022 class B,
EN 61000-2, -4, -5

CE LVD: 2006/95/EC
EMC: 2004/108/EC
RoHS: 2011/65/EU

Dimensions (in mm)



Connections

Primary

MS700701
MS700701-B
MS700701-EKTH
MS700701-KY



Euro8

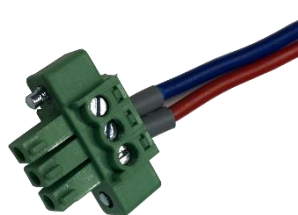
MS700701-V



with WAGO-clamps

Secondary

MS700701
MS700701-V
MS700701-EKTH



Combicon

MS700701-KY



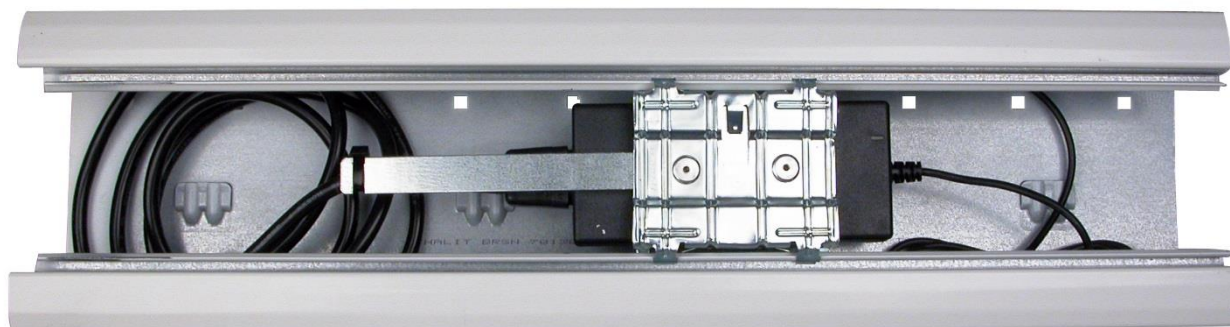
KYCON

MS700701B



Binder

Application example (MS700701-EKTH)



Ordering Information

Compact power supply 54VDC/1.2A

	Description	Art.-No.
	power supply 54V/1.2A 65W for PoE+ Micro Switch, prim. Euro-8 cable, sec. Combicon connector	MS700701
	power supply 54V/1.2A 65W for PoE+ Micro Switch, prim. Euro-8 cable, sec. KYCON-Stecker,	MS700701-KY
	power supply 54V/1.2A 65W for PoE+ Micro Switch, prim. Euro-8 cable, sec. Binder711	MS700701-B
	power supply 54V/1.2A 65W for PoE+ Micro Switch, prim. Euro-8 cable with WAGO-clamps, sek. Combiconstecker	MS700701-V
	Power supply 54V/1.2A 65W for PoE+ Micro Switch, ehalith bracket, prim. Euro8 cable, sec. Combicon connector	MS700701-EKTH

This document in whole or in part may not be duplicated, reproduced, stored or retransmitted without prior written permission of MICROSENS GmbH & Co. KG. All information in this document is provided 'as is' and subject to change without notice. MICROSENS GmbH & Co. KG disclaims any liability for the correctness, completeness or quality of the information provided, fitness for a particular purpose or consecutive damage. MICROSENS is a trademark of MICROSENS GmbH & Co. KG. Any product names mentioned herein may be trademarks and/or registered trademarks of their respective companies. mf19/19 – fdb translated37/20