

Product Overview

Industrial Power Supplies (24 VDC)



Description

For the particular critical industrial use in rough environments MICROSENS has developed a special compact power supply. Beside standardized features this device offers additional optimizations for the use in switching cabinets.

The design of the chassis increases the surface and leads together with the high efficiency to optimum heat dissipation. The product range for the industrial segment includes, beside the described power supply, media converter for Ethernet (10Base-FL/10Base-T), Fast Ethernet (100Base-FX/100Base-TX) and converter for serial interfaces (RS-232, RS-422, RS-485).

Furthermore there are Fast Ethernet and Gigabit Ethernet switches available to build up fault tolerant fiber rings.

Properties

- extreme compact chassis, IP20
- high efficiency
- integrated over voltage protection
- snap-on mounting on 35 mm hat-rails
- parallel operation of up to 5 power supplies

Specifications

General

Type	Compact Power Supply for Industrial Use
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Power Supply (DC)

Output (DC)	Output voltage adj. range 24 V – 28 V DC Output power 24 W (MS700420) 60 W (MS700421) 120 W (MS700422)
Connector	all cables 0.5 to 2,5 mm ² / AWG=12-22
Ripple and Noise	< 50 mV

Environment

Operating Temperature	-10..+70 °C
Storage Temperature	-25..+85 °C
Relative Humidity	up to 95 % non condensing

Standards Compliance

Safety	EN60950, EN50178, EN60204, EN61558-2-8
Electromagnetic Emission	EN61000-6-3
Electromagnetic Immunity	EN61000-6-2

Display

Type	LEDs
Status	DC On DC Adjust

Power Supply (AC)

Input Voltage	85...264V AC 85...375V DC Input current (230 VAC) at full load: 0.2 A (MS700420) 0.6 A (MS700421/430) 1.0 A (MS700422)
Efficiency	88% (typical)

Mechanical

Dimensions	MS700420: 27 x 100 x 75 mm (B x T x H) MS700421: 45 x 100 x 75 mm (B x T x H) MS700422: 85 x 100 x 75 mm (B x T x H)
Weight	MS700420: 140 g MS700421: 265 g MS700422: 440 g
Mounting	DIN-Rail
Protection class	IP20

Reliability

MTBF	MS700420: 2.680.000 h MS700421: 2.950.000 h MS700422: 1.620.000 h
Method	calculated according to IEC-1709

Order Information

Description	Article Number
Hat-rail power supply 24 Watt 24 V / 1,0 A, wide range input 85-264 VAC, 85..375 VDC	MS700420
Hat-rail power supply 60 Watt 24 V / 2,5 A, wide range input 85-264 VAC, 85..375 VDC	MS700421
Hat-rail power supply 120 Watt 24 V / 5,0 A, wide range input 85-264 VAC, 85..375 VDC	MS700422
Hat-rail DC/DC power supply 24 Watt 24 V / 1,0 A, wide range input 18-75 V DC	MS700434

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