

# Compact Power Supply for industrial use

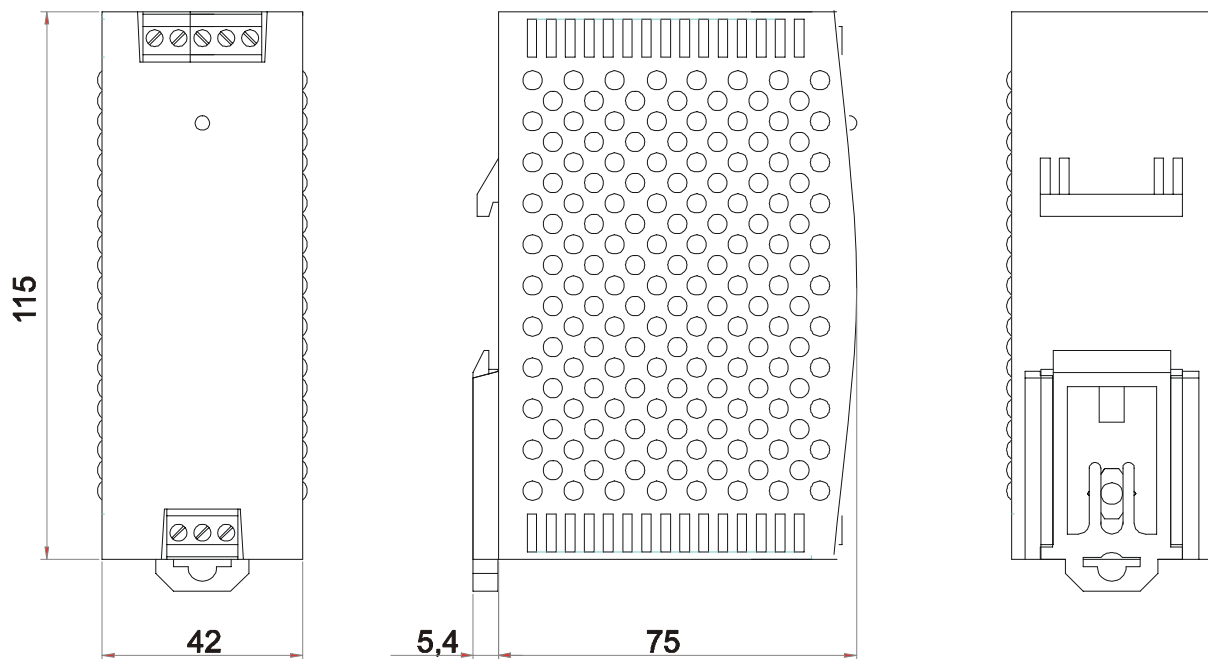
# MICROSENS

## General

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 use 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).



## Installation

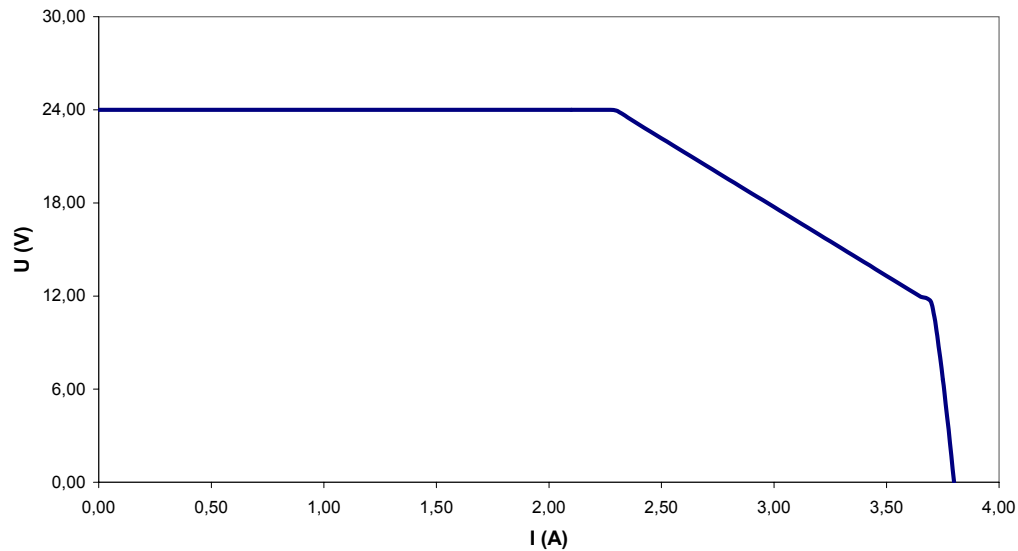
The compact power supply has a robust plastic chassis (vacuum shed) with an integrated holder for DIN-rails. For the mounting it is possible to use 35 mm hat rails according DIN EN 50 022. The fixation of the MICROSENS power supply on the rail is done with a locking pin that can be opened from the bottom side. Multiple devices can be lined up on the rail.

## Technical Specifications

<b>Type</b>	Compact Power Supply for industrial use	
<b>Input</b>	AC-nominal input voltage	100...240 V AC
	Input frequencies	40...440 Hz
	DC-input voltage range	85...240 V DC
	AC-input current	1.0 A
	RFI level	EN 55 011/B, EN 55 002/B
<b>Output</b>	Nominal output voltage	24 V DC
	Output current	2.1 A
	Nominal output power	50 W
	Tolerance output voltage	$\leq 1\% U_{out}$
	Ripple	$\leq 1\% U_{out}$
<b>Efficiency</b>	$\geq 85\%$	
<b>Connections</b>	all cables 0.5 to 2,5 mm <sup>2</sup> / AWG=12-22	
<b>Parallel connection</b>	no	
<b>Short circuit</b>	short circuit proof, no load proof	
<b>Isolation</b>	Isolation voltage	3.3 kV AC
	Isolation resistance	> 1000 M $\Omega$
<b>Protection class</b>	2, protection isolated (according VDE0106/1, IEC529)	
<b>Noise level (EMV)</b>	Level B (EN 55011)	
<b>Immunity</b>	8 kV, Level 4 (EN 61000-4-2, ESD) 10 V/m, Level 3 (EN 61000-4-3, HF-Field) 2 kV, Level 4 (EN 61000-4-4, Burst) 1 kV, Level 2 (EN 61000-4-5, Surge) 10 V (EN 61000-4-6, HF-Eink.)	
<b>Power fail compensation</b>	>110 ms ( $U_{in}=230$ V AC) >15 ms ( $U_{in}=100$ V AC)	
<b>Mounting</b>	35 mm hat-rail, according DIN EN 50022	
<b>Dimensions</b>	42 x 80 x 115 mm (w x d x h)	
<b>Weight</b>	650 g	
<b>Operating temp.</b>	-25 °C to +65 °C	
<b>Derating</b>	>60 °C, 2 % /K	
<b>Storage temp.</b>	-45 °C to +85 °C	
<b>Rel. humidity</b>	5 % to 95 % non condensing	

## Load behaviour

Typical Characteristic



## Order Information

Art.-No.	Description	Connectors
MS700405	DIN-rail power supply 50 Watt 24V/2,1A, Wide range power input 85-264 V AC	In: 3-pin Out: 5-pin

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