

## Data sheet

Industrial Power Supplies for PoE applications  
DIN-rail mounting



### **High efficiency**

Efficiency of up to 94%

### **Fanless Design**

No noise emission, minimized maintenance

### **Compact dimensions**

High performance for limited installation space

### **Simple mounting**

Snap-on DIN Rail connector

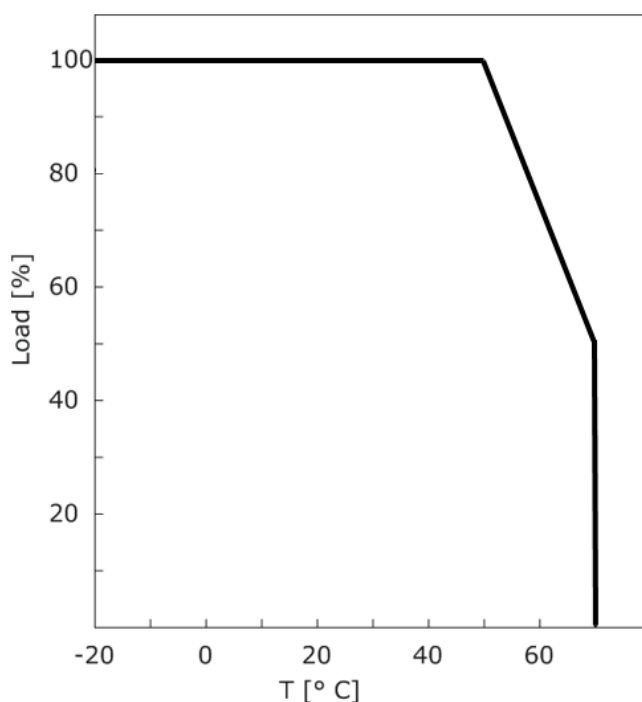
## Technical Specifications

<b>Type</b>	Industrial Power Supply	
<b>Input</b>	Input voltage range	90..264 VAC 120..400 VDC
	Input frequency (AC)	47..63 Hz
<b>Output</b>	VAC inrush current	80 A @230 VAC 40 A @115 VAC
	Leakage current	0.8 mA @ 240 VAC
	Rated output voltage	48 VDC (MS70047x) 24 VDC (MS700441)
	Adjustment range	48..56 VDC (MS70047x) 24..28 VDC (MS700441)
	Rated output current	1.35 A (MS700475) 3.125 A (MS700476) 5 A (MS700477) 10 A (MS700479) 2.7 A (MS700441)
	Current range	0..1.35 A (MS700475) 0..3.125 A (MS700476) 0..5 A (MS700477) 0..10 A (MS700479) 0..2.7 A (MS700441)
	Rated output power	65 W (MS700475) 150 W (MS700476) 240 W (MS700477) 480 W (MS700479) 65W (MS700441)
	Ripple and noise	<150 mVpp
	Voltage tolerance	± 1%
	Line regulation	± 0.5%
	Load regulation	± 1%
	Setup time	<6000 ms @230 VAC <8000 ms @115 VAC
	Rise time	<300 ms
	Hold-up time	14 ms @230 VAC 14 ms @115 VAC
<b>Efficiency</b>	Typical	94% (MS70047x) 92% (MS700441)
	Max. power dissipation	<10 W (No load, 230 VAC in)
<b>Protection</b>	Overload	110 ~ 150 % of rated power (Constant current limiting, recovers automatically after fault condition is removed)
	Over voltage	59 ~ 61 V (shut down output voltage, repowers automatically)
	Over temperature	shut down output voltage, repowers automatically
<b>LED Indicator</b>	Green	DC output OK
	Red	Output Off
<b>Safety</b>	Standard	EN 62368-1
	Withstand voltage (@ 500 VDC, 25 °C and 70% relative humidity)	Input to output: 3 kVAC Input to FG: 1.5 kVAC Output to FG: 0.5 kVAC
	Isolation resistance (@ 500 VDC, 25 °C and 70% relative humidity)	Input to output: >100 MOhm Input to FG: >100 MOhm Output to FG: >100 MOhm

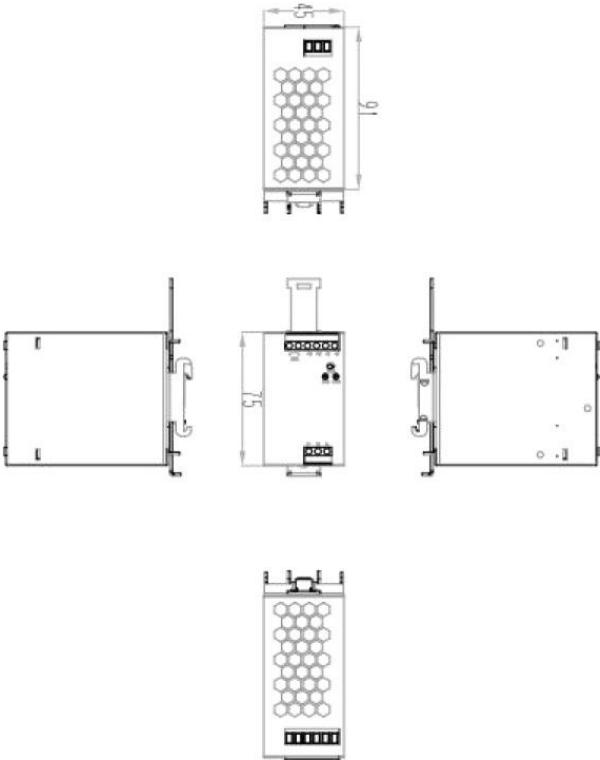
## Technical Specifications (continued)

<b>Environmental Conditions</b>	Temperature	-40..+85°C (Storage) -30..+75°C (Operating)
	Temp. coefficient	
	Relative humidity	5..95%, non-condensing
	Altitude	<3000 m
<b>Cooling</b>	Free air convection with sufficient clearance on all sides	On top: 50 mm at full load On bottom: 50 mm at full load Sides: 5 mm at full load and 15 mm near of heat sources
<b>Reliability (MTBF)</b>	MIL-HDBK-217F, GF 25°C	>350.000 h
<b>Dimensions</b>	(W x H x D)	45 x 75 x 91 (MS700475) 45 x 125 x 100 (MS700476) 45 x 125 x 100 (MS700477) 45 x 125 x 100 (MS700479) 45 x 75 x 91 (MS700441)
	<b>Housing material</b>	Metal
	<b>Mounting</b>	DIN-Rail EN50022-35x15/7.5 (Snap-on self-locking spring)
	<b>CE</b>	EN62368-1: 2014+A11:2017
	<b>RoHS</b>	2011/65/EU
<b>EMC</b>	Emission	EN55032:2015/A11:2020, EN61000-3-2/-3
	Immunity	EN55024, EN61000-4-2,3,4,5,6,8,11

## Thermal Derating



Dimensions (in mm)



## Order Information

	Description	Article Number
	<b>Industrial Power Supplies for PoE applications</b>	
	Industrial DIN-Rail PoE+ Power Supply 54VDC / 65W Input 85...264VAC, Output 48..56VDC, -30..+70°C	<b>MS700475</b>
	Industrial DIN-Rail PoE+ Power Supply 54VDC / 150W Input 85...264VAC, Output 48..56VDC, -30..+70°C	<b>MS700476</b>
	Industrial DIN-Rail PoE+ Power Supply 54VDC / 240W Input 85...264VAC, Output 48..56VDC, -30..+70°C	<b>MS700477</b>
	Industrial DIN-Rail PoE+ Power Supply 54VDC / 480W Input 85...264VAC, Output 48..56VDC, -30..+70°C	<b>MS700479</b>
	<b>Industrial Power Supplies</b>	
	Industrial DIN-Rail PoE+ Power Supply 24VDC / 65W Input 85...264VAC, Output 24..28VDC, -30..+70°C	<b>MS700441</b>

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