MICROSENS

Data sheet

Industrial Power Supplies for PoE applications
DIN-rail mounting

High efficiency

Efficency 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

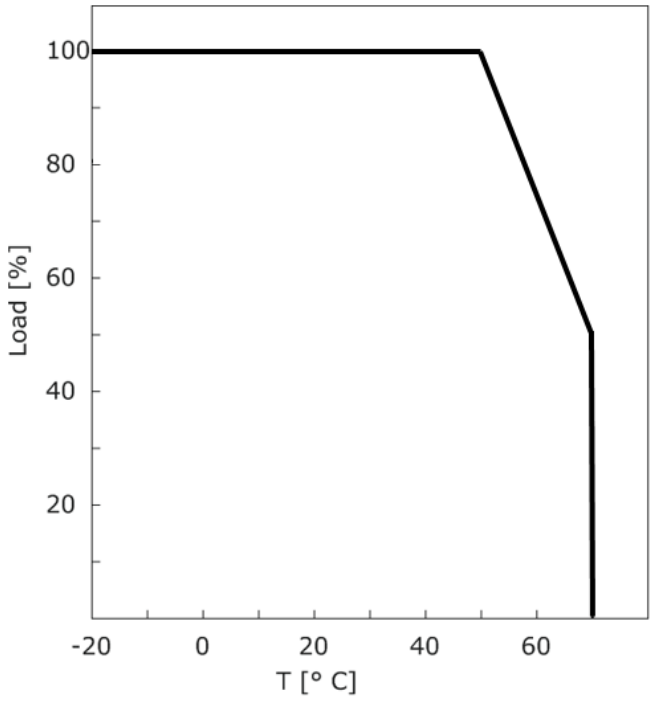
Technical Specifications

Type	Industrial Power Supply	
Input	Input voltage range	90..264 VAC 120..400 VDC
	Input frequency (AC)	47..63 Hz
	VAC inrush current	80 A @230 VAC 40 A @115 VAC
	Leakage current	0.8 mA @ 240 VAC
Output	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
Efficiency	Typical	94% (MS70047x) 92% (MS700441)
	Max. power dissipation	<10 W (No load, 230 VAC in)
Protection	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
LED Indictor	Green	DC output OK
	Red	Output Off
Safety	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

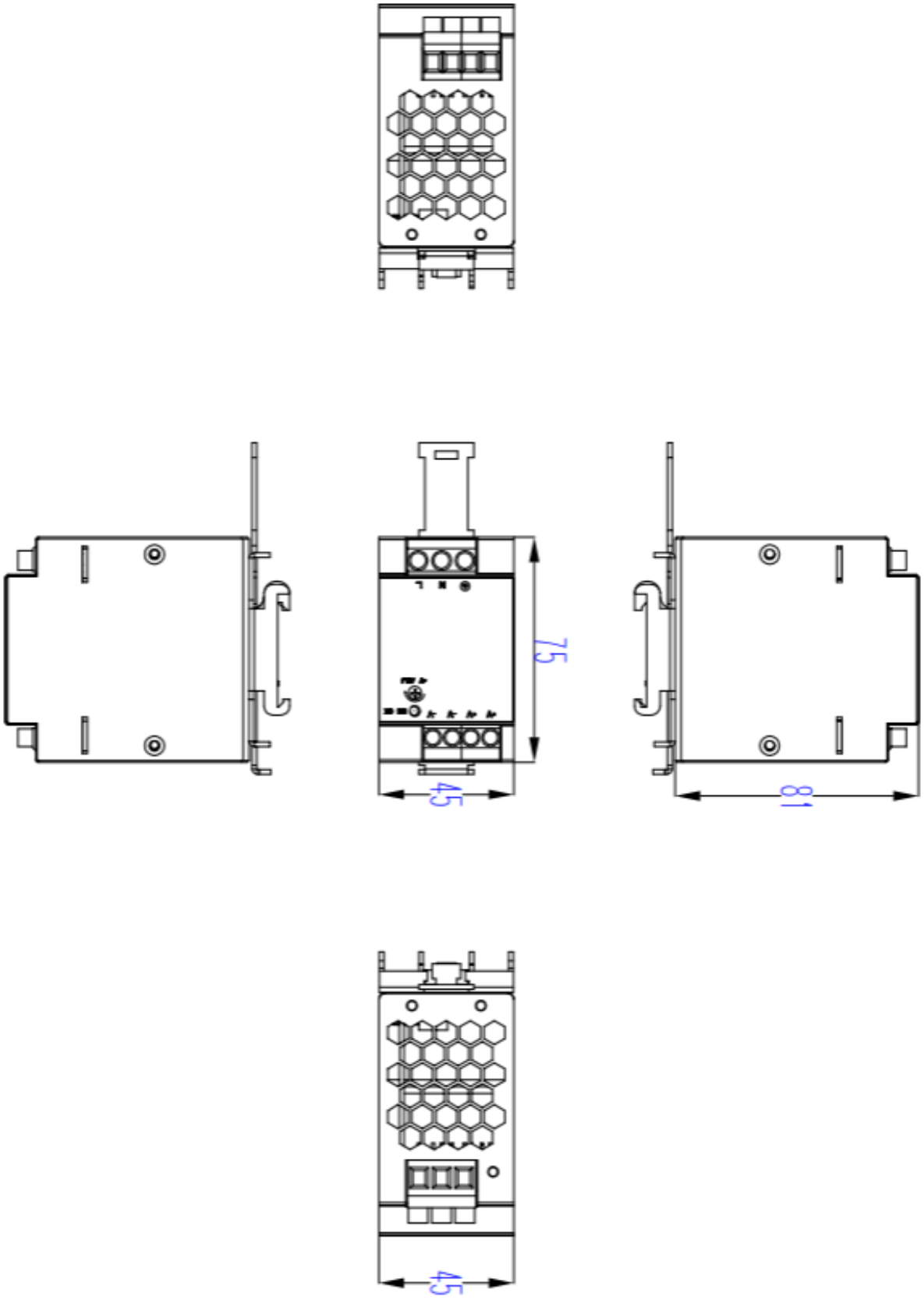
Technical Specifications (continued)

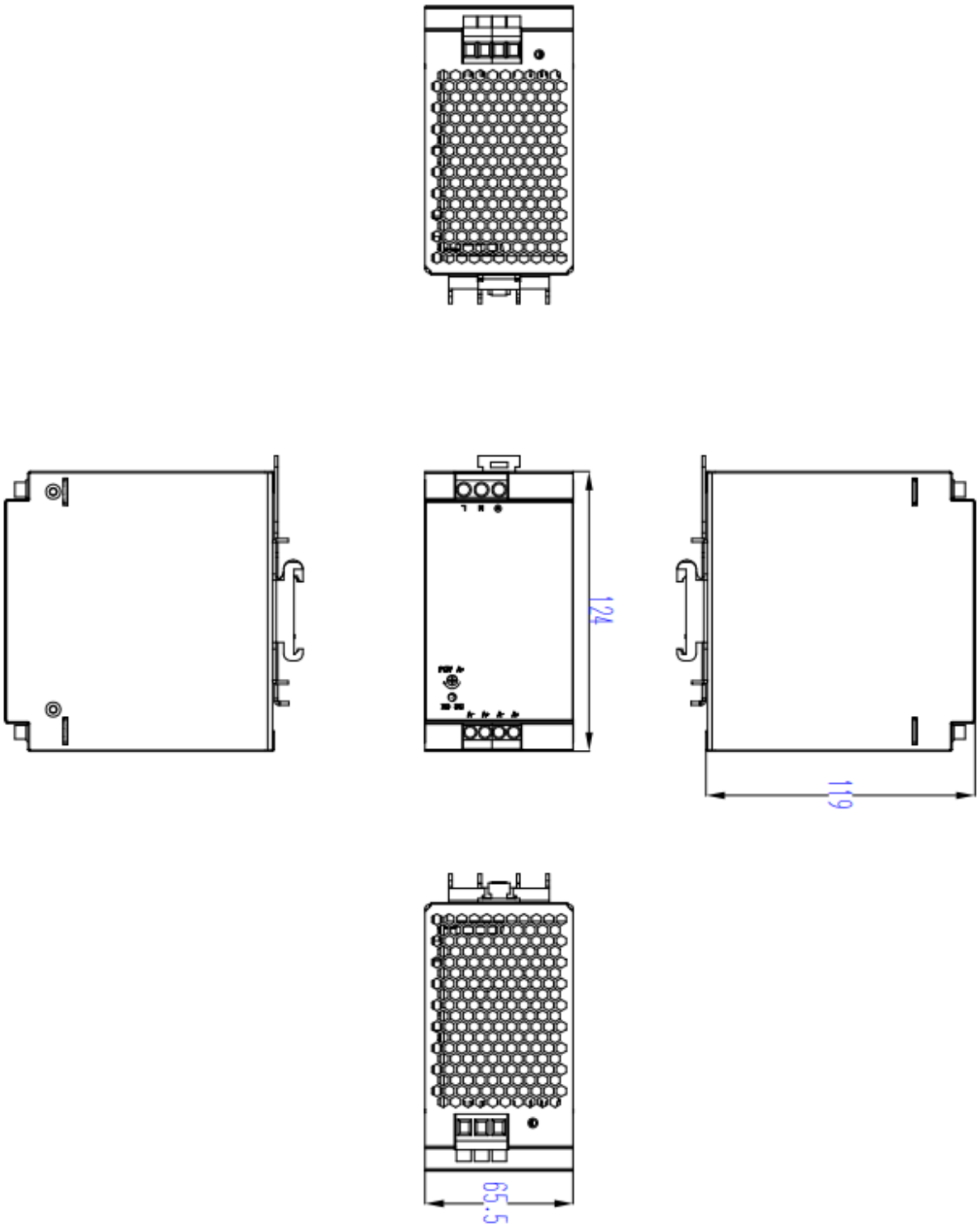
Environmental Conditions	Temperature	-40..+85°C (Storage) -30..+70°C (Operating)
	Temp. coefficient	
	Relative humidity	5..95%, non-condensing
	Altitude	<3000 m
Cooling	Free air convection with sufficient clearance on all sides	On top: 50 mm at full load On bottom: 50 mm at full load Sides: 5 mm at full load and 15 mm near of heat sources
Reliability (MTBF)	MIL-HDBK-217F, GF 25°C	>350.000 h
Weight	in grams	340 (MS700475) 970 (MS700476) 975 (MS700477) 990 (MS700479)
Dimensions	(W x H x D)	45 x 75 x 95 (MS700475) 65 x 123 x 132 (MS700476) 65 x 123 x 132 (MS700477) 65 x 123 x 132 (MS700479) 45 x 75 x 81 (MS700441)
Housing material		Metal
Mounting		DIN-Rail EN50022-35x15/7.5 (Snap-on self-locking spring)
CE		EN62368-1: 2014+A11:2017
RoHS		2011/65/EU
EMC	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)

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119
65.5

Order Information

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