

# PS480D72

## DIN Rail Power Supply



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1/10/2018  
925-0055A

## PS480D72 POWER SUPPLY | 1000-380

MODEL	output voltage	output current	output power	ripple and noise <sup>1</sup>	efficiency
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
PS480D72	72	6.7	482	50	94

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, probe terminated with a 0.1  $\mu$ F MKP parallel capacitor.  
2. All specifications are measured at Ta=25°C, 240 Vac input voltage after 5 minutes of operation.

### INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
		110		345	Vdc
frequency		47		63	Hz
under voltage lockout	at no load at		77		Vac
	full load		86		Vac
current	AC rated current at 120 Vac at 240 Vac			4.8	A
				2.4	A
	DC rated current at 110 Vdc			4.9	A
	at 345 Vdc			1.7	A
inrush current				35	A
leakage current				0.9	mA
power factor correction	active	0.9			
internal protection fuse	fuse 8AT (not user replaceable)				
external protection	fuse 10AT or MCB 10A C curve, it is strongly recommended to provide external surge arresters (SPD) according to local regulations				

### OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation				$\pm 0.5$	%
adjustability		70		80	Vdc
hold up time		25			ms
status signals	DC OK - green LED OVERLOAD - red LED DC OK - dry contact (NO, 24 Vdc/1 A)				
parallel connection	includes internal ORing circuit (must set to current share mode)				

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### PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection		100			Vdc
over current protection	single (user settable): hiccup mode		12		A
	current share (user settable): constant current mode		7		A
short circuit protection	single (user settable): hiccup mode				
	current share (user settable): constant current mode				
over temperature protection	shut down at 100 °C ±5 °C, auto recovery at 60 °C ±10 °C				

### SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output		4,200		Vdc
	input to ground		2,200		Vdc
	output to ground		750		Vdc
safety approvals	UL 508				
safety class	Class I				
EMI/EMC	EN 55011 (CISPR11) class B, EN 55022 (CISPR22) class B, EN 61000-3-2 class A, EN 61000-4-2 level 3, EN 61000-4-3 level 3, EN 61000-4-4 level 4, EN 61000-4-5 level 4, EN 61000-4-11 level 2				
IP level	IP20 (EN 60529)				
over voltage category	III (EN 50178)				
pollution degree	2, (IEC 60664-1)				
lifetime	at 25 °C, full load		167,953		hours
RoHS	2011/65/EU				

### ENVIRONMENTAL


parameter	conditions/description	min	typ	max	units
operating temperature	with derating above 50 °C	-40		70	°C
storage temperature		-40		80	°C
operating humidity	non-condensing	5		95	%
vibration	IEC 60068-2-6 (5-17.8 Hz: ±1.6 mm; 17.8-500 Hz: 2 g 2 hours / axis (X, Y, Z))				
shock	IEC 60068-2-27 (30 g 6 ms, 20 g 11 ms; 3 bumps / direction, 18 bumps total)				

### MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	56.0 x 140.0 x 117.0				mm
weight			1.1		kg
case material	Aluminum				
connection terminals	screw type (24~12 AWG)				

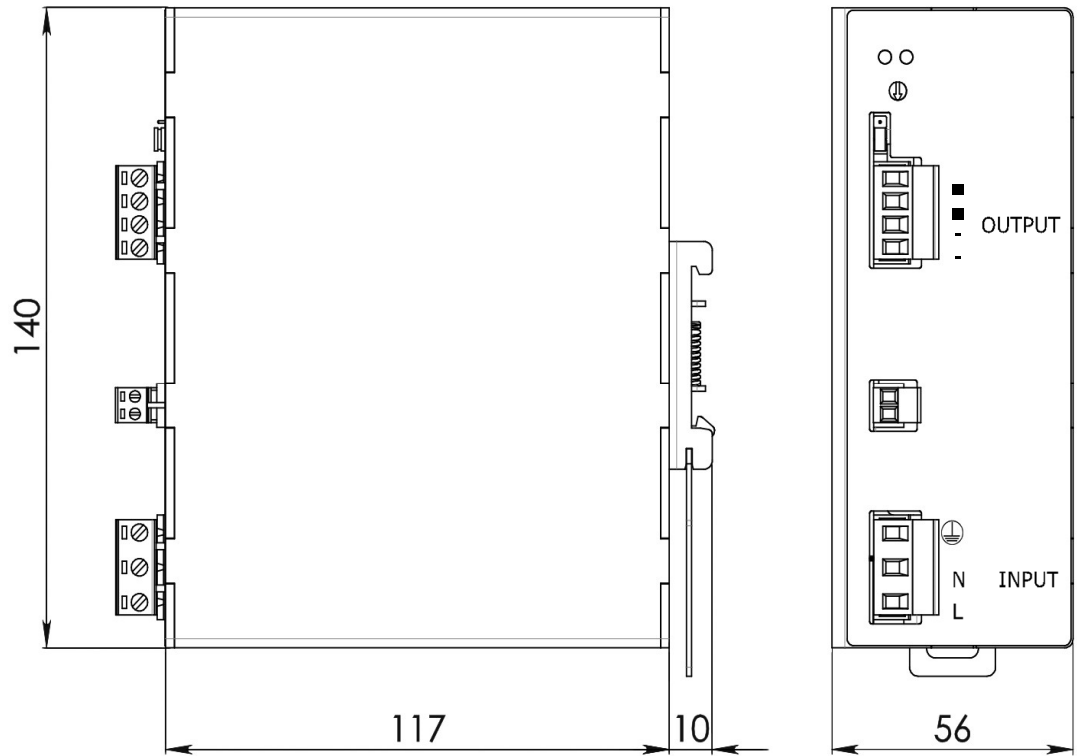
**MECHANICAL DRAWING**

units: mm

INPUT CONNECTION		
	SINGLE PHASE	DC
L	line	+ positive DC
N	neutral	- negative DC
	earth ground	earth ground

OUTPUT CONNECTION	
+	positive DC
-	negative DC

SIGNALLING
DC OK: dry contact
NO
COM

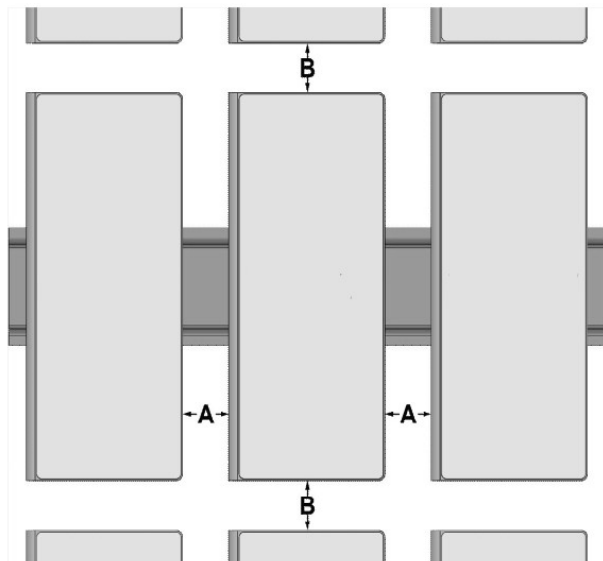


**INSTALLATION**

For sufficient convection, minimum gap distance is required

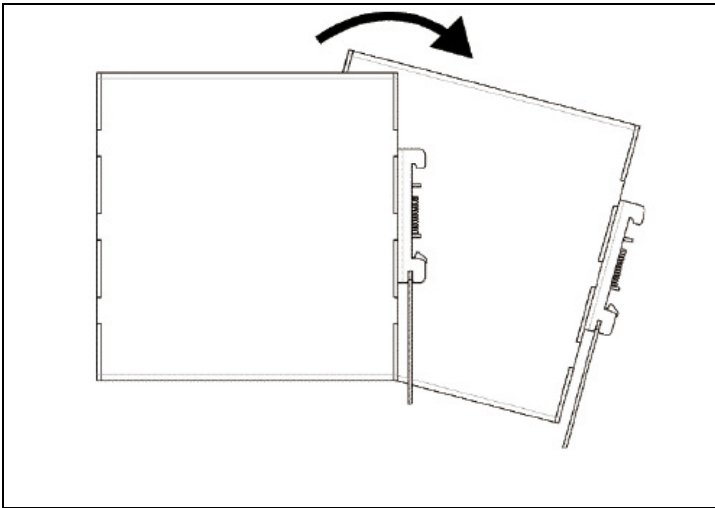
A = 20mm (0.8 inch)  
B = 100mm (3.9 inch)

This device is provided with thermal protection, a limited airflow can cause the thermal protection tripping.

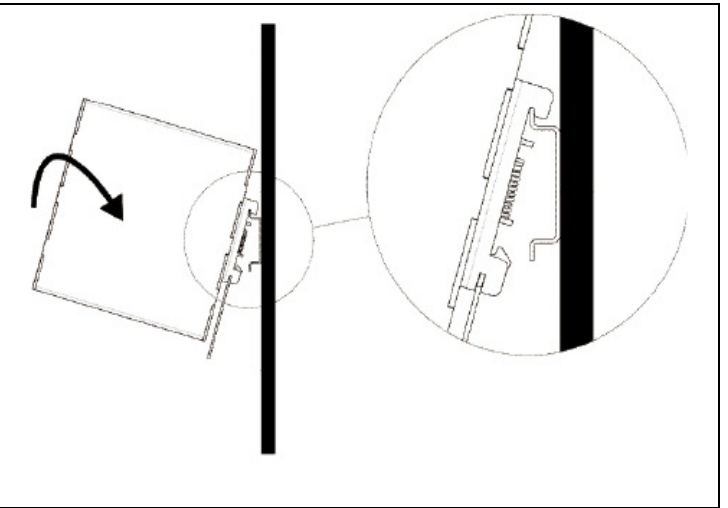


## MOUNTING

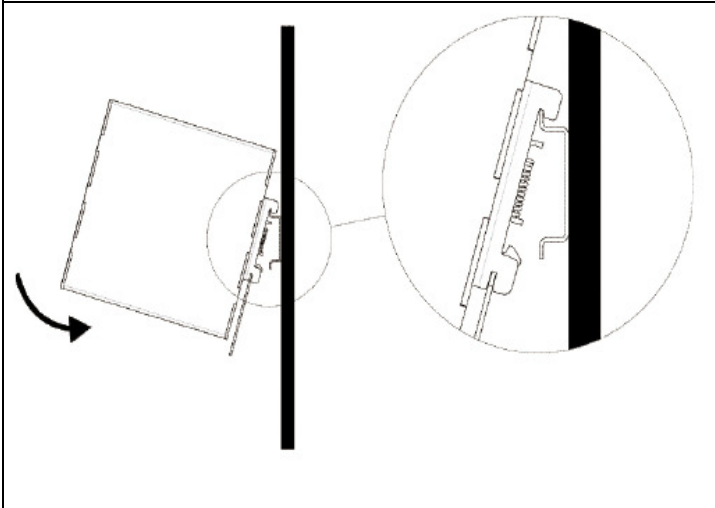
For DIN rail Fastening according to IEC 60715 TH35-7.5(-15)



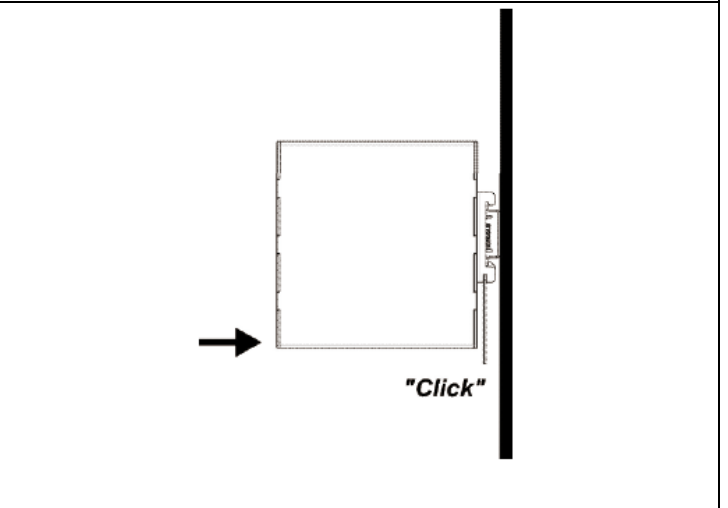
1. Tilt the unit slightly backwards



2. Fit the unit over the top edge of the rail

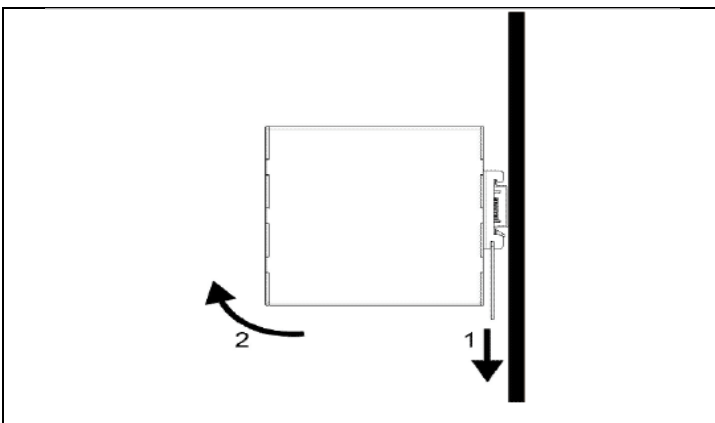


3. Slide it downward until it hits the stop

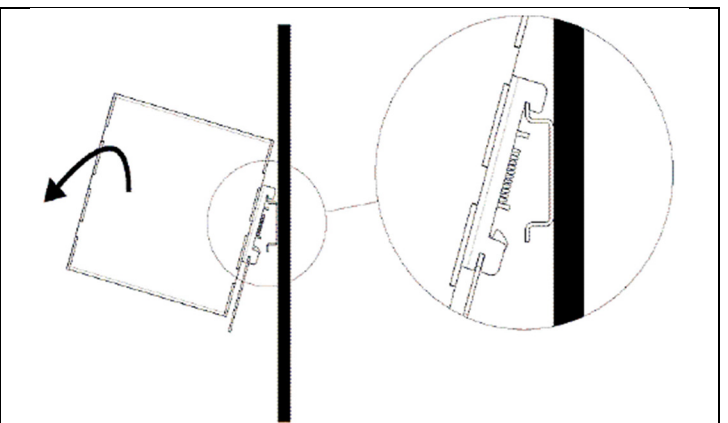


4. Press against the bottom for locking

## DISMOUNTING



1. Pull down the slide clamp lever & Tilt the unit toward



2. Unhook the unit from the rail

**REVISION HISTORY**

<b>rev.</b>	<b>description</b>	<b>date</b>
A	initial release per ECO 7825	01/10/2018

The revision history provided is for informational purposes only and is believed to be accurate.



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