

Technical data sheet · Power supply

LCOS-PS controlled, 120 Watt



Identification	Type	LCOS-PS-1-120-24
	Part-No.	779101.0413
Product version		
Datasheet version	02	
Description		
	Primary switchmode power supply, PFC, Single-phase	
	Input: Wide range input AC 100 V – 240 V	
	Output: 24 V, adjustable	

29.04.2020 – Subject to technical modification

Part-No. 779101.0413

USA: LUTZE INC.

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Input

Number of phases	1
Rated voltage U_N	AC 100–240 V
Rated frequency f_N	50 Hz / 60 Hz
Rated current I_N	0.70 A @ AC 230 V
Inrush current	<20 A @ AC 230 V
Internal fuse	4 A Typ-T AC 250 V
External fuse	6 A Typ-B (IEC 60947-2) The external fuse must be installed close to the LCOS-PS and must be easily accessible for the user.
Power factor correction P.F.C.	>0.96

Output

Rated voltage U_N	24 V (SELV)
Rated current I_N	5 A
Max. output current	>7.5 A, 5 s @ $U_{out} > 90 \%$
Short-circuit current	–
Setting range $U_{out \min.}/U_{out \max.}$	DC 23–27.5 V
Load regulation	downslope -2 % @ 5 A
Line regulation	0.5 %
Rise time	< 1 S
Ripple and Noise	≤100 mV pp
Hold up time	>20 ms
Status indication DC ON LED green	≥21.6 V
Status indication DC LOW LED red	$I_{out} > 110 \% I_N$
Parallel / redundant mode	max. 4 devices / redundancy via decoupling diode
Efficiency	>93 %
Protection device	Over voltage protection
Over voltage protection	35 V
Power loss (nominal operations) max.	9 W @ 230 V
Rated over load protection	yes
Short circuit	Current limit (overload), Hiccup (short-circuit)

Status indication

Status display output	DC ON, green ≥21.6 V $I_{out} > 110 \% I_N$
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Monitoring

DC ON Control (Rdy)	Open Collector
Monitoring	DC ON, open collector
Switching voltage	DC 30 V
Switching current	max. 0.100 A

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Remote input

control voltage	DC 24 V
Control current	DC 5 mA
ON/OFF	11 V – 30 V: OFF, DC 5 V: ON

General

Insulation voltage input / output	AC 3.0 kV _{eff}
Insulation voltage input / ground	AC 1.5 kV _{eff}
Insulation voltage output / ground	DC 0.5 kV _{eff}
Derating	>50 °C: -4 W/°C
Operation temperature range	-25 °C ... +70 °C
Storage temperature range	-25 °C ... +85 °C
Relative air humidity	20 – 95 % RH, not condensing
Cooling	Air convection
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Application height	2000 m max.
Installation position	vertical
Protection class	IP20 (EN 60529)
Protection class	II (only with connected functional earthing)
Over voltage category	II (IEC 664-1)
Degree of pollution	2
Weight	0.350 kg/piece
Connection type	Push-In 0.08 mm ² – 2.5 mm ² AWG 28 – AWG 12 input: 3-pin output: 8-pole
Dimensions (w × h × d)	35.0 × 100.0 × 110.0 mm
Certifications	CE
Standards	EN 61204-3:2000 EN 60950-1:2006+A1:2010+A2:2013 EN 61000-6-2:2005 EN 61000-6-4:2007 EN 61010-1:2010 EN 50581:2012
MTBF	>500000 h: SN29500 / >150000 h: MIL HDBK 217F
PU	1 piece

Note

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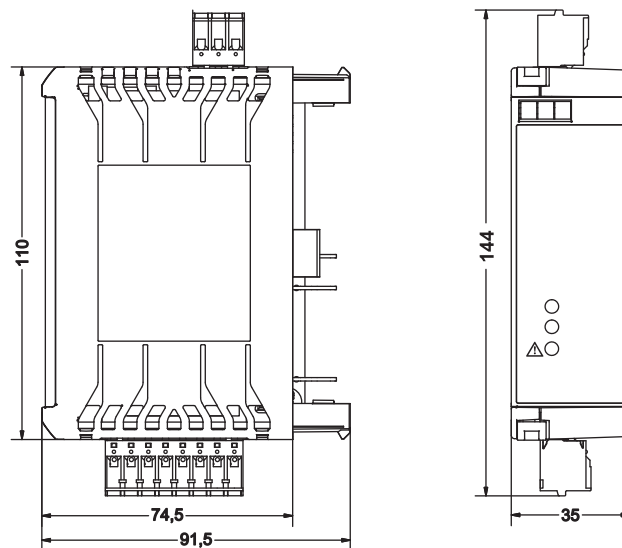
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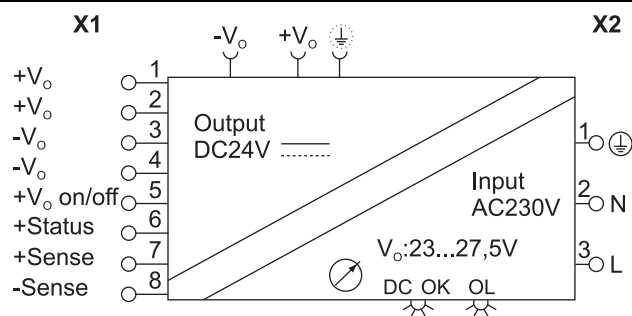
Included in the delivery
Not included in the delivery

Plug-in terminals : CS 5.08 and CS 3.50
Function carrier and other accessories

Dimensions



PIN assignment



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