

Technical data sheet · Power supply

Compact Economy, regulated, 120 W



Identification	Type	CPSB1-120-24E
	Part-No.	723500
Description		
Primary switchmode power supply, PFC, Single-phase		
Input: wide-range input AC 85–264 V, DC 110–345 V		
Output: DC 24 V, adjustable		

11.03.2020 – Subject to technical modification

Part-No. 723500

USA: LUTZE INC.

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www.lutze.com • info@lutze.com

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Input

Number of phases	1
Rated voltage U_N	AC 120/240 V
Operation voltage range	AC 85–264 V / DC 110–345 V
Line frequency	47 – 63 Hz
Rated current I_N	2.1 A @ AC 120 V / 1.2 A @ AC 240 V
Inrush current	<40 A
Internal fuse	T3, 15 A/AC 250 V
External fuse	Mini-circuit breaker: C 6 A
Power factor correction P.F.C.	>0.6

Output

Rated voltage U_N	DC 24 V
Rated current I_N	5 A
Max. output current	7 A, 30 s
Heat dissipation	<18 W
Setting range $U_{out\ min.}/U_{out\ max.}$	DC 23–28 V
Load regulation	<1 %
Ripple and Noise	<60 mV
Hold up time	>10 ms @ AC 120 V / >60 ms @ AC 230 V
Status indication DC ON LED green	≥ 21.6 V
Status indication DC LOW LED red	≤ 21.6 V
Parallel / redundant mode	yes/via external decoupling diode e.g. 722999
Efficiency	>87 %
Overtemperature protection	yes
Over voltage protection	>DC 33 V ($U_A=24$ V)
Short circuit	Hiccup Mode

Monitoring

DC ON Control (Rdy)	N/O contact
Switching voltage	AC 300 V / DC 150 V
Switching current	AC/DC 1 A
Switching capacity	300 VA / 30 W
Isolation voltage	AC 500 V

General

Insulation voltage input / output	DC 4.2 kV
Insulation voltage input / ground	DC 2.2 kV
Insulation voltage output / ground	DC 750 V
Derating	>60 °C: -2.4 W/°C
Operation temperature range	-40 °C ... +70 °C (UL certified up to +60 °C)
Storage temperature range	-40 °C ... +80 °C

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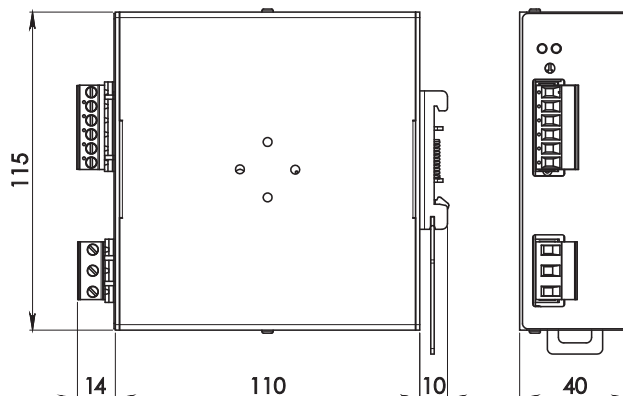


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Cooling	Air convection, 50 mm distance top/bottom, 20 mm side
Housing material	Aluminum
Mounting	DIN rail mountable TS35 (EN 60715)
Installation position	vertical
Protection class	IP20 (IEC 529 / EN 60529)
Protection class	I
Over voltage category	III
Degree of pollution	2
Weight	0.400 kg/piece
Connection type	Screw terminal 0.20 mm ² – 2.5 mm ² plug-in
Dimensions (w × h × d)	40.0 × 115.0 × 134.0 mm
Certifications	cULus (E249179)
Standards	IEC 950 EN 60950 UL 60950 EN 61000-6-2 EN 61000-6-4 EN 61000-4-2/3/4/5/6/11
PU	1 piece

Dimensions



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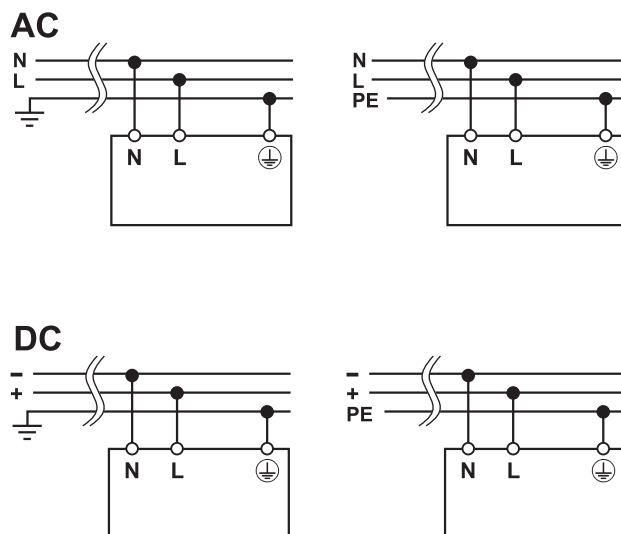
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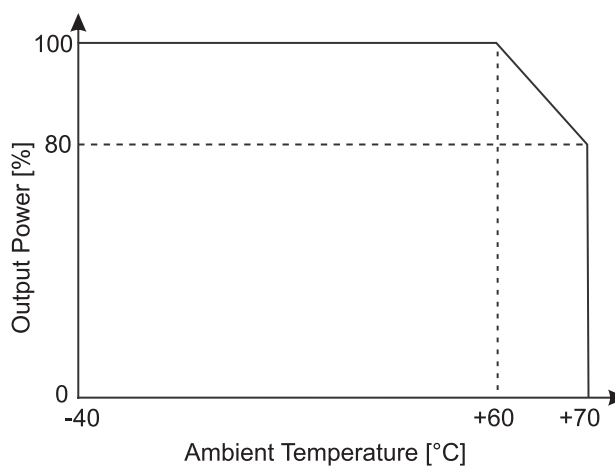
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PIN assignment



Derating



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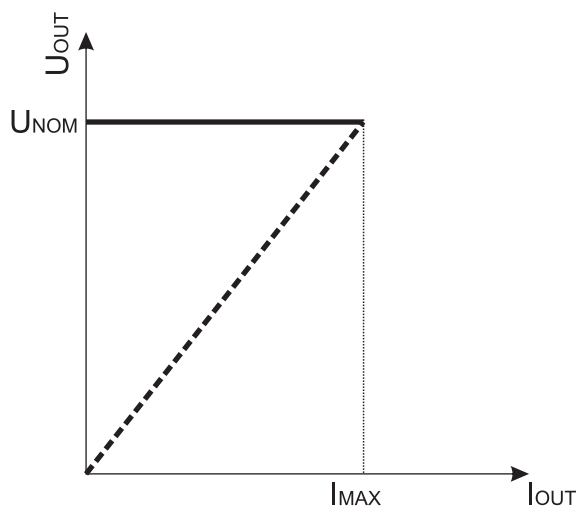


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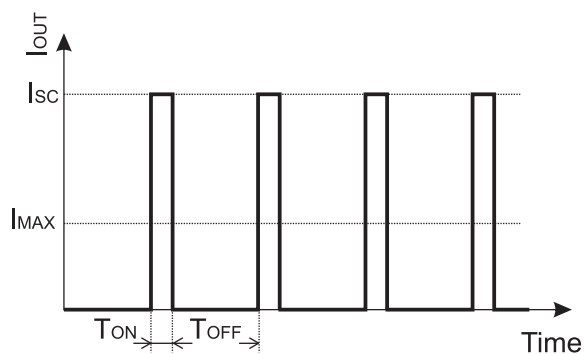
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Short circuit characteristics

Hiccup limitation output characteristic



Short circuit conditions



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