

regulated, 480 W



Identification

Type
Part-No.

CPSB1-480-24R
722986

Description

Primary switchmode power supply, PFC, Single-phase
Input: AC 90–132 V, AC 187–264 V
Output: 24 V, adjustable

04.04.2017 – Subject to technical modification

Part-No. 722986

USA: LUTZE INC.

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SYSTEMATIC TECHNOLOGY

Technical data sheet · Power supply

Input

Number of phases	1
Rated voltage U_N	AC 120/240 V
Operation voltage range	AC 90–132 V / AC 187–264 V
Line frequency	47 – 63 Hz
Rated current I_N	7.2 A @ AC 120 V / 4.3 A @ AC 230 V
Inrush current	<35 A
External fuse	Mini-circuit breaker: C 16 A (required)
Power Factor Correction P.F.C.	>0.6

Output

Rated voltage U_N	DC 24.00 V
Rated current I_N	20.00 A
Max. output current	30 A, 5 s @ 24 V
Short-circuit current	30 A (>50 A Hiccup)
Heat dissipation	<45 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	23-28 V
Load regulation	<1 %
Ripple and Noise	<100 mV pp
Hold up time	>35 ms (AC 240 V)
Status indication DC ON LED green	≥ 21.6 V
Status indication DC LOW LED red	≤ 21.6 V
Parallel / redundant mode	max. 4 devices / via internal decoupling diodes
Efficiency	>92 % @ AC 240 V
Over voltage protection	yes
Rated over load protection	yes
Short circuit	Hiccup Mode / Current limit

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

Switching frequency	approx. 70-110 kHz
Insulation voltage input / output	AC 3.0 kV _{eff}
Insulation voltage input / ground	AC 2.0 kV _{eff}
Insulation voltage output / ground	AC 0.7 kV _{eff}
Derating	>45 °C : -10 W/°C
Operation temperature range	-20 °C ... +60 °C (Derating)

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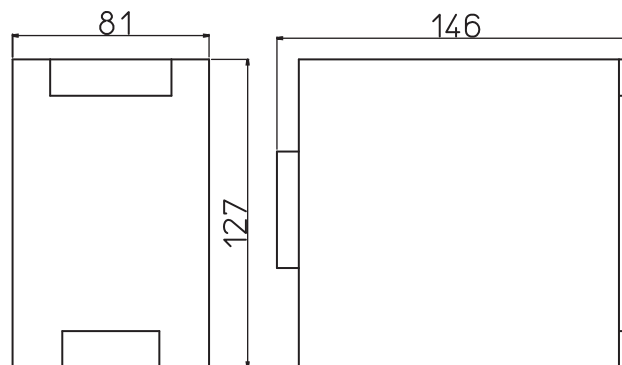


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Technical data sheet · Power supply

Storage temperature range	-25 °C ... +85 °C
MTBF	750000 h: SN29500 / 250000 h: MIL HDBK 217F
Relative air humidity	20 – 90 % RH, not condensing
Cooling	Air convection, 50 mm distance top/bottom, 10 mm side
Housing material	Aluminum
Mounting	Can be snapped onto hat profile TS35 (EN 60715)
Installation position	vertical
Shock resistance	30 g 6 ms, 20 g 11 ms, 3 shocks/direction, 18 shocks in total, IEC60068-2-27: 2008
Vibration resistance	5 – 17.8 Hz: ±1.6 mm, 17.8 – 500 Hz: 2 g 2 hours/axes X,Y,Z, IEC 60068-2-6: 2007
Protection class	IP20 (IEC 529, EN 60529)
Protection class	I (SELV, PELV)
Over voltage category	II
Degree of pollution	2
Weight	1.100 kg/piece
Connection device	Screw terminal 0.20 mm ² – 6.0 mm ² max. 0.62 Nm
Dimensions (w × h × d)	81.0 × 127.0 × 146.0 mm
Approvals	cULus (E249179)
Standards	IEC 950 EN 60950 EN 61000-4-2/3/4/5/6/11 EN 61000-6-2 EN 61000-6-4 EN 50178 EN 61558 EN 50081-1 EN 50082-2 EN 55022 Class B
PU	1 Quantity

Dimensions



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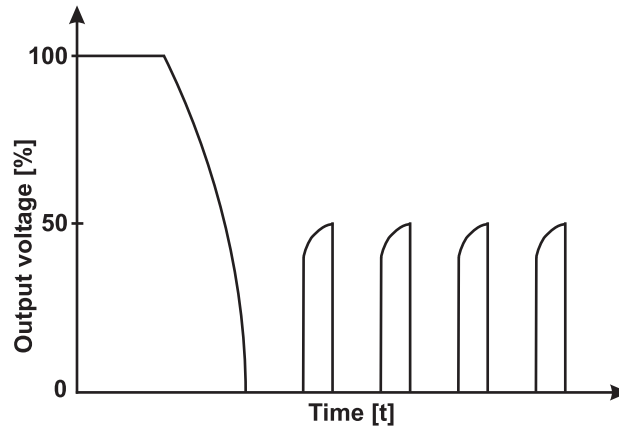
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Short circuit characteristics



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