

regulated, 480 W



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**Identification**

Type  
Part-No.

CPSB1-480-48R  
722989

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**Description**

Primary switchmode power supply, PFC, Single-phase  
Input: AC 90–132 V, AC 187–264 V  
Output: 48 V, adjustable

04.04.2017 – Subject to technical modification

Part-No. 722989

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk



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## 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 48.00 V
Rated current $I_N$	10.00 A
Max. output current	15 A, 5 s @ 48 V
Short-circuit current	15 A (>40 A Hiccup)
Heat dissipation	<45 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	45-55 V
Load regulation	<1 %
Ripple and Noise	<100 mV pp
Hold up time	>35 ms (AC 240 V)
Status indication DC ON LED green	$\geq 43.2$ V
Status indication DC LOW LED red	$\leq 43.2$ 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 <sub>eff</sub>
Insulation voltage input / ground	AC 2.0 kV <sub>eff</sub>
Insulation voltage output / ground	AC 0.7 kV <sub>eff</sub>
Derating	>45 °C : -10 W/°C
Operation temperature range	-20 °C ... +60 °C (Derating)

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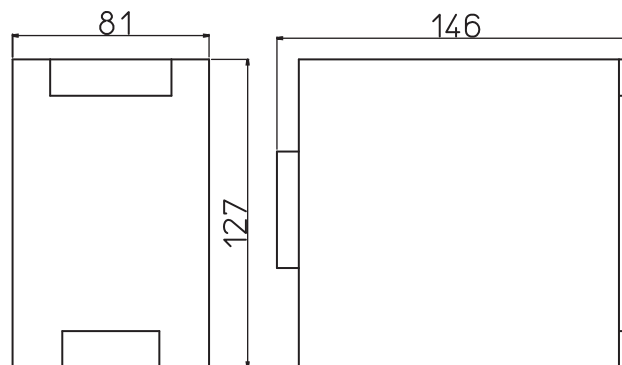
## Technical data sheet · Power supply

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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 <sup>2</sup> – 6.0 mm <sup>2</sup> 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

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### Dimensions



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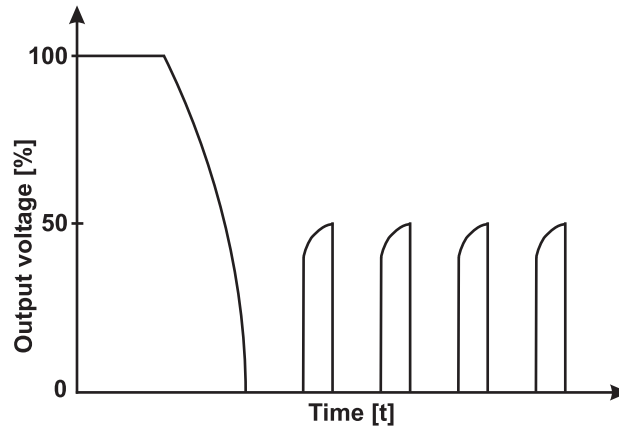
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**Short circuit characteristics**



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