

regulated, 240 W



Identification

Type
Part-No.

CPSB1-240-48R
722786

Description

Primary switchmode power supply, PFC, Single-phase
Input: AC 90–132 V, AC 187–264 V, DC 270–345 V
Output: 48 V, adjustable

25.08.2017 – Subject to technical modification

Part-No. 722786

USA: LUTZE INC.

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Technical data sheet · Power supply

Input

Number of phases	1
Rated voltage U_N	AC 120 / 230 V (manual)
Operation voltage range	AC 90–132 V / AC 187–264 V, DC 270–345 V
Line frequency	47 – 63 Hz
Rated current I_N	4 A @ AC 115 V / 2 A @ AC 230 V
Inrush current	30 A @ AC 115 V / 35 A @ AC 230 V
Internal fuse	T6, 3 A/AC 250 V
External fuse	Mini-circuit breaker: C 10 A
Power Factor Correction P.F.C.	>0.6

Output

Rated voltage U_N	DC 48.00 V
Rated current I_N	5.00 A
Max. output current	6.9 A, 30 s @ 24 V
Short-circuit current	20 A, 160 ms
Heat dissipation	<34 W
Setting range $U_{out\ min.}/U_{out\ max.}$	45-55 V
Load regulation	±1 %
Ripple and Noise	100 mV
Hold up time	>80 ms @ AC 120 V / >90 ms @ AC 230 V
Status indication DC ON LED green	≥43.2 V
Status indication DC LOW LED red	≤43.2 V
Parallel / redundant mode	max. 2 devices / via external decoupling diodes
Efficiency	90 %
Over voltage protection	yes
Rated over load protection	yes
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

Switching frequency	approx. 110 kHz
Insulation voltage input / output	DC 4.2 kV
Insulation voltage input / ground	DC 2.2 kV
Insulation voltage output / ground	DC 750 V
Derating	>50 °C: -5 W/°C

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Operation temperature range	-20 °C ... +70 °C (Derating)
Storage temperature range	-25 °C ... +85 °C
MTBF	>500000 h: SN29500 / >150000 h: MIL HDBK 217F
Relative air humidity	20 – 90 % RH, not condensing
Cooling	Air convection, 100 mm distance top/bottom, 20 mm side
Housing material	Aluminum
Mounting	DIN rail mountable 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
Over voltage category	III
Degree of pollution	2
Weight	0.720 kg/piece
Connection device	Screw terminal 0.20 mm ² – 2.5 mm ² plug-in max. 0.56 Nm
Dimensions (w × h × d)	63.5 × 140.0 × 139.0 mm
Approvals	cULus (E249179)
Standards	IEC 950 EN 60950 UL 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 piece

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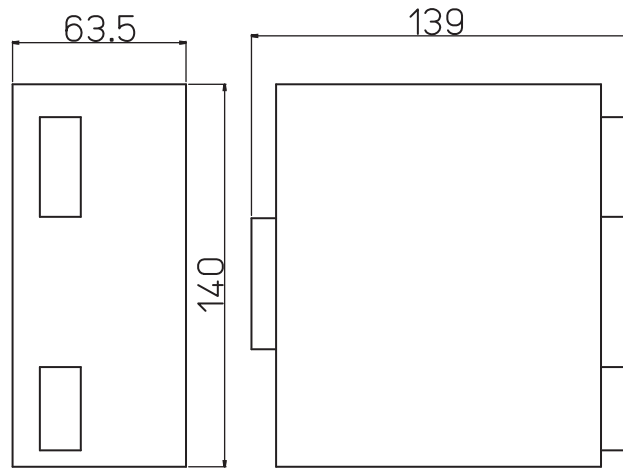
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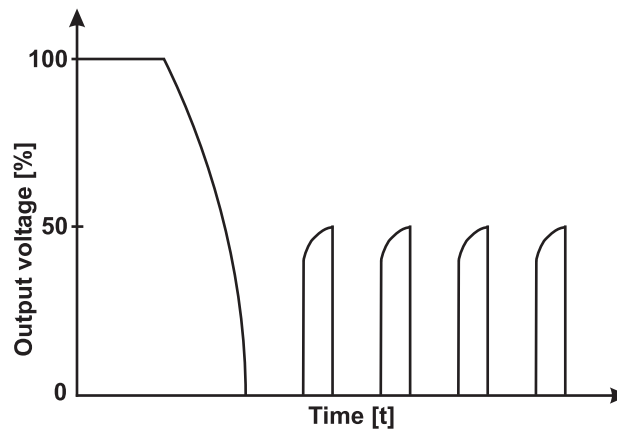
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Dimensions



Short circuit characteristics



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