

regulated, 960 W, 3-phase



Identification	Type	CPSB3-960-48
	Part-No.	722812
Description	Primary switchmode power supply, PFC, 3-phase Input: Wide range input AC 340 - 550 V Output: 48 V, adjustable	

25.08.2017 – Subject to technical modification

Part-No. 722812

USA: LUTZE INC.

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SYSTEMATIC TECHNOLOGY

Technical data sheet · Power supply

Input

Number of phases	3
Rated voltage U_N	3 × AC 400–500 V
Operation voltage range	3 × AC 340–550 V
Line frequency	47 – 63 Hz
Rated current I_N	2.8 A @ AC 400 V / 2.2 A @ AC 500 V
Inrush current	<50 A
External fuse	Mini-circuit breaker: 3 × B 16 A, C 10 A (required)
Power Factor Correction P.F.C.	>0.7

Output

Rated voltage U_N	DC 48.00 V
Rated current I_N	20.00 A
Max. output current (limited current)	21.5 A
Max. output current (HICCUP, 5 sec)	30 A
Heat dissipation	<72 W
Setting range $U_{out\ min.}/U_{out\ max.}$	45-55 V
Load regulation	<1 %
Ripple and Noise	<100 mV pp
Hold up time	>10 ms @ AC 400 V / >15 ms @ AC 500 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 e.g. 722999
Efficiency	>93 %
Over voltage protection	<60 V
Rated over load protection	> 90°C, auto-reset
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	DC 4.2 kV
Insulation voltage input / ground	DC 2.2 kV
Insulation voltage output / ground	DC 750 V
Derating	>50 °C: -15 W/°C, UL 508: >45 °C: -15 W/°C
Operation temperature range	-20 °C ... +60 °C (Derating)

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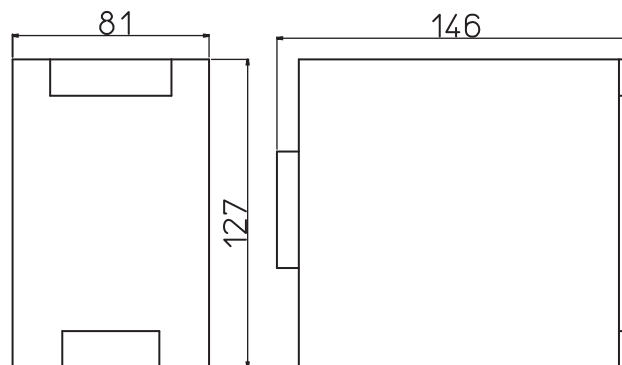


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Storage temperature range	-25 °C ... +85 °C
MTBF	>500000 h: SN29500 / >150000 h: MIL HDBK 217F
Relative air humidity	20 – 90 % RH, not condensing
Cooling	Air convection, forced cooling >50°C, 50 mm distance top/bottom
Housing material	Aluminum
Mounting	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	1.200 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 piece

Dimensions



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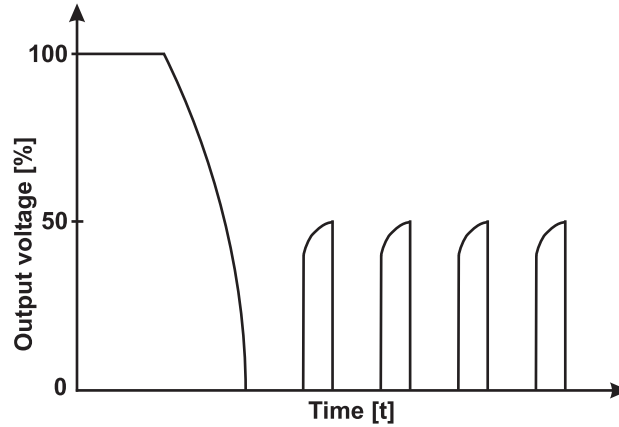
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Short circuit characteristics



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