

Technical data sheet

Power supply · LEPOS Wide Range, regulated, 480 W

Primary switchmode power supply, 1-/2-phase

Input: wide-range input AC 180–550 V, DC 254-780 V

Output: DC 24 V / 20 A, adjustable



Identification

Type	LEPOS-WR-480-24
Part No.	722722

Product version

Datasheet version	01
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Input

Number of phases	2
Rated voltage U_N	One-, two-phase AC 200/500 V
Operation voltage range	AC 180-550 V DC 254-780 V
Frequency range	47 Hz – 63 Hz
Rated current I_N	4 A @ AC 230 V 1.6 A @ AC 400 V
Inrush current	50 A @ AC 230 V 50 A @ AC 400 V
Internal fuse	T6,3 A / AC 500 V
External protection	Mini-circuit breaker: C 16 A
Power factor correction P.F.C.	>0.84 @ AC 230 V / >0.84 @ AC 400 V

Output

Output voltage/current	DC 24 V/20 A
Rated voltage U_N	DC 24 V
Rated current I_N	20 A

United Kingdom: LÜTZE Ltd.

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

Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt
Tel. +49 (0)7151 6053-0
www.luetze.de • info@luetze.de

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Max. output current	26 A, 3s
Power Dissipation	36 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	24-28 V
Accuracy	$\pm 2\%$
Load regulation	$\pm 1\%$
Line regulation	$\pm 0.5\%$
Rise time	2000 ms @ 230 V / 800 ms @ 400 V
Temperature coefficient	$\pm 0.03\% / ^\circ\text{C}$
Ripple and noise	100 mV pp
Hold up time	16 ms @ AC 230 V 18 ms @ 400 V
Parallel / redundant mode	Yes/via external decoupling diode e.g. 722999
Efficiency	91 %
Overtemperature protection	95 °C +/- 5 °C, switch-off with auto reset
Over voltage protection	29-33 V, switch-off in case of overvoltage, switch-on again after input voltage reset
Rated over load protection	130 % for 3 s, then shutdown with auto-reset
Short circuit	Current limit

Status indication

Status indication DC ON LED green DC 22-28 V

Monitoring

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

General

Insulation voltage input / output	AC 3.0 kV _{eff}
Insulation voltage input / ground	AC 2.0 kV _{eff}
Insulation voltage output / ground	AC 500 V / DC 500 V
Insulation resistance at DC 500 V	100 M Ω
Derating	>50 °C: -12 W/°C
Cooling	Air convection, 15 mm distance right/left, 40 mm top, 20 mm bottom
Housing material	Metal
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m
Installation position	Vertical
MTBF	>112,800 h: MIL HDBK 217F
Degree of protection	IP20
Protection class	I
Weight/unit	1.7 kg

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Connection type	Screw terminal 0.20 mm² – 2.5 mm² AWG 24 – AWG 12
Dimensions (w × h × d)	85.7 mm × 125.0 mm × 128.0 mm
PU (units)	1

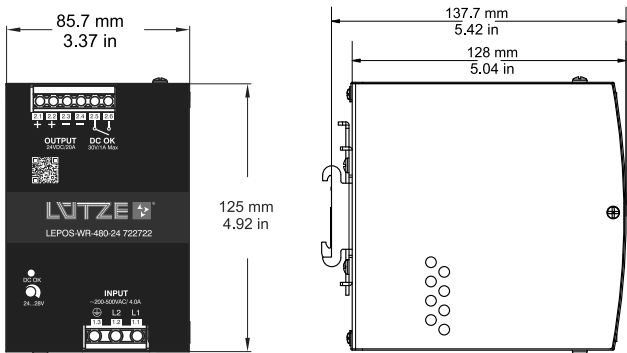
General ambient conditions

Operation temperature range	-30 °C ... +70 °C (Derating)
Storage temperature range	-40 °C ... +85 °C
Over voltage category	III
Degree of pollution	2
Relative air humidity	20 – 95 % RH, non-condensing

Certifications/Standards

Conformity	CE
Certifications	cULus (E249179)
Standards	EN 55032:2015+A11:2020 EN 55035:2017+A11:2020 EN 61000-3-3:2013+A2:2021 EN 61010-1:2010+A1:2019+AC:2019 EN IEC 61000-3-2:2019+A1:2021 UL 61010-1:2019 UL 61010-2-201:2018

Dimensions



Output	
No.	Description
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	Relay Contact

Input	
No.	Description
1	AC/L1
2	AC/L2
3	FG ⚡

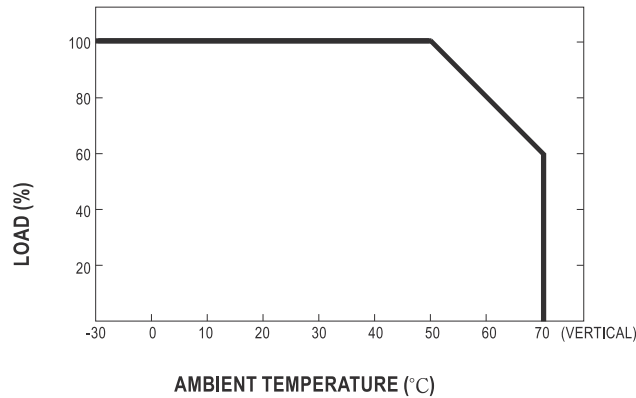
Use

DC OK Relay Contact

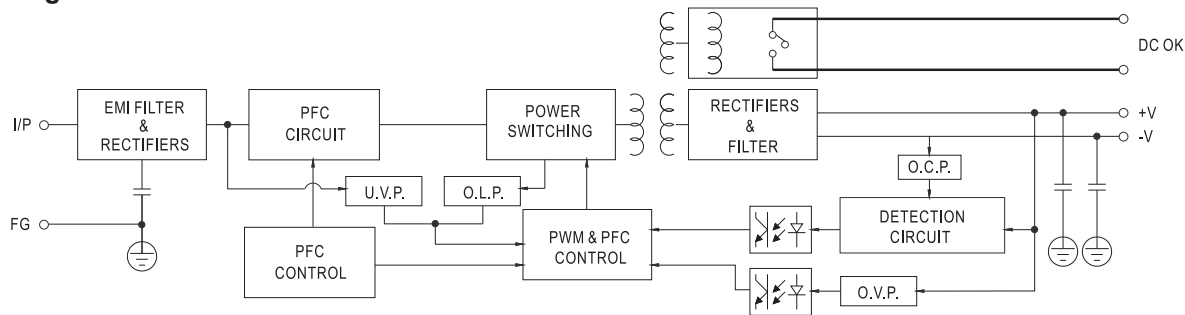
Contact Close	PSU turns ON / DC OK.
Contact Open	PSU turns OFF / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

Derating

Deduction curve and temperature



Circuit diagram



Characteristic

Minus output and input voltage curves

