

Technical data sheet

Power supply · LEPOS Wide Range, 1-/2-phases, 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

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

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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	±2 %
Load regulation	±1 %
Line regulation	±0.5 %
Rise time	2000 ms @ 230 V / 800 ms @ 400 V
Temperature coefficient	±0.03 % / °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 MΩ
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 mm ² – 2.5 mm ² AWG 24 – AWG 12
Dimensions (w × h × d)	85.7 mm × 125.0 mm × 128.0 mm
PU (units)	1

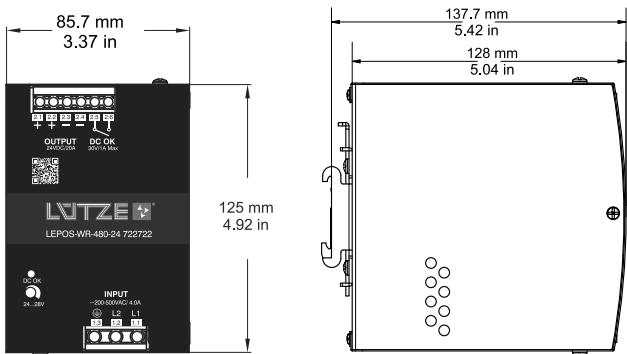
General ambient conditions

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

Standards	The current version of the standards for this product is available on request.
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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 Ⓢ

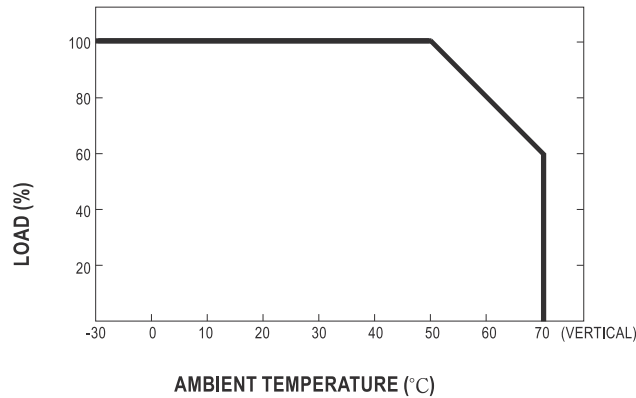
Use

DC OK Relay Contact

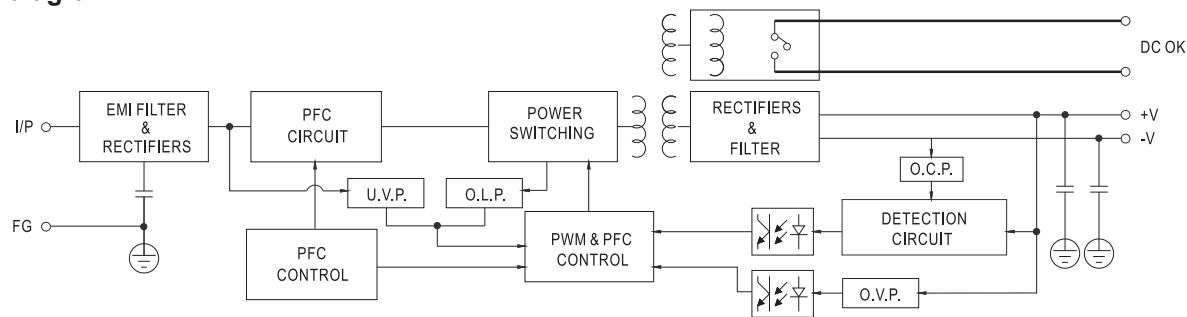
Contact Close	PSU turns ON / DC OK.
Contact Open	PSU turns OFF / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

Derating

Deduction curve and temperature



Circuit diagram



Characteristic

Minus output and input voltage curves

