

Technical data sheet

Power supply · LEPOS Performance, 1-phase, regulated, 960 W

Primary switchmode power supply, Single-phase

Input: wide-range input AC 180–264 V, DC 254–370 V

Output: DC 24 V / 40 A, adjustable



Identification

Type	LEPOS-HP-960-24
Part No.	722718

Product version

Datasheet version	01
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Input

Number of phases	1
Rated voltage U_N	AC 230 V
Operation voltage range	AC 180–264 V DC 254–370 V
Frequency range	47 Hz – 63 Hz
Rated current I_N	6 A @ AC 230 V
Inrush current	50 A @ AC 230 V
Internal fuse	T10 A / AC 250 V
External protection	Mini-circuit breaker: C 16 A
Power factor correction P.F.C.	>0,95 @ AC 230 V

Output

Output voltage/current	DC 24 V/40 A
Rated voltage U_N	DC 24 V
Rated current I_N	40 A
Max. output current	>52 A, >3 s
Power Dissipation	72 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	24–28 V

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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Part No. [722718](#) • Datasheet version: 01

page 1 of 5

Technical data sheet

Power supply · LEPOS Performance, 1-phase, regulated, 960 W

Accuracy	±2 %
Load regulation	±1 %
Line regulation	±0.5 %
Rise time	1000 ms @ AC 230 V
Temperature coefficient	±0.03 % / °C
Ripple and noise	180 mV
Hold up time	14 ms @ 230 V
Parallel / redundant mode	Current distribution with P+, P-, max. 4 devices / via external decoupling diode e.g. 722999
Efficiency	94 %
Overtemperature protection	105 °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: -19.2 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	660.2K hrs min. Telcordia SR-332 (Bellcore); 70.7K hrs min. MIL-HDBK-217F (25 °C)
Degree of protection	IP20
Protection class	I
Weight/unit	2.47 kg
Connection type	Screw terminal 0.20 mm ² – 2.5 mm ² AWG 24 – AWG 12
Dimensions (w × h × d)	110.0 mm × 125.2 mm × 150.0 mm

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PU (units) 1

General ambient conditions

Operation temperature range -30 °C ... +70 °C

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

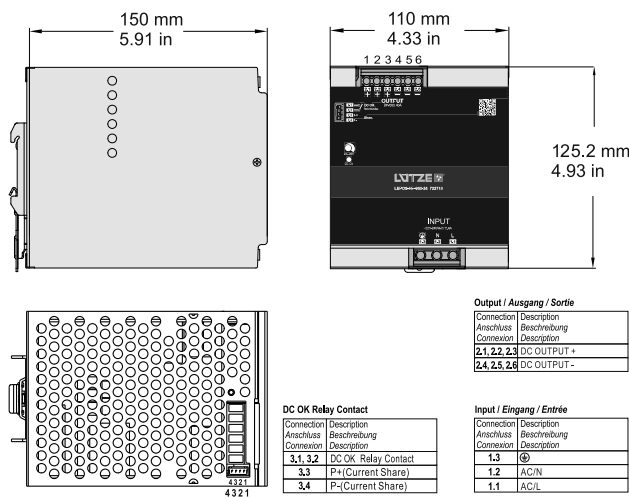
EN 61010-1:2010+A1:2019+AC:2019

EN IEC 61000-3-2:2019+A1:2021

UL 61010-1:2019

UL 61010-2-201:2018

Dimensions



Use

DC OK Relay Contact

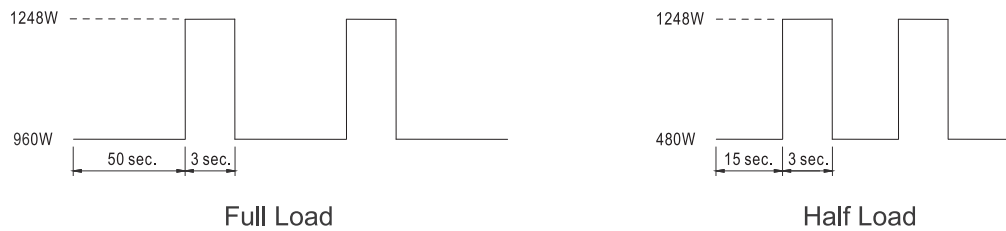
Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

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Use

Peak Loading



Use

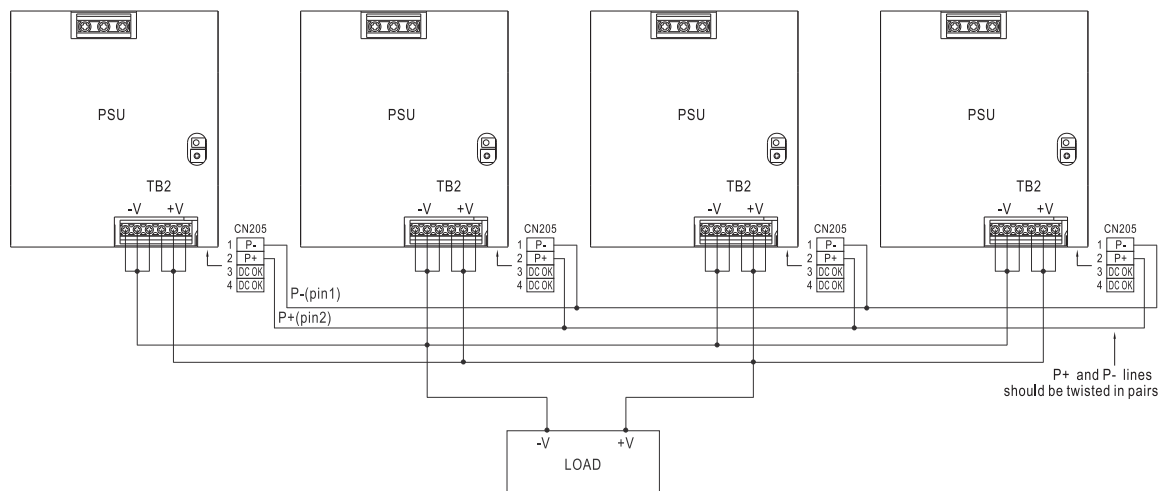
Note

Current Sharing

1. Connection type of parallel operation is as follows (P+,P- parallel connection)
2. The output voltage difference between the parallel units should be less than 0.2V
3. The total output current must not exceed the value calculated of the following equation:

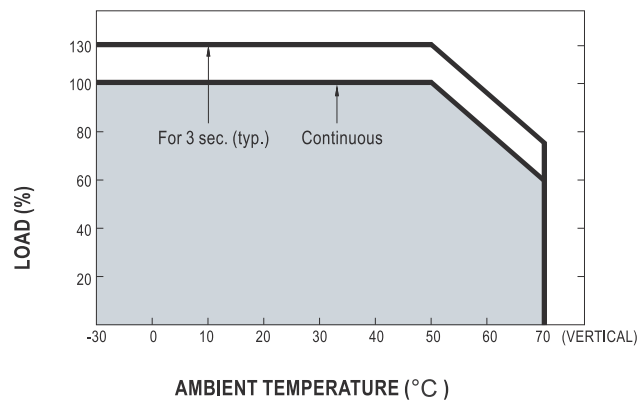
$$(\text{Output current at parallel operation}) = (\text{The rated current per unit}) \times (\text{Number of unit}) \times 0.9$$

4. The maximum quantity of parallel operation is **eight** units, if need more quantity of parallel operation, please contact the manufacture.
5. In parallel connection, the minimum output load should be more than 3% of total output load
(Min. load > 3% rated current per unit x number of unit)

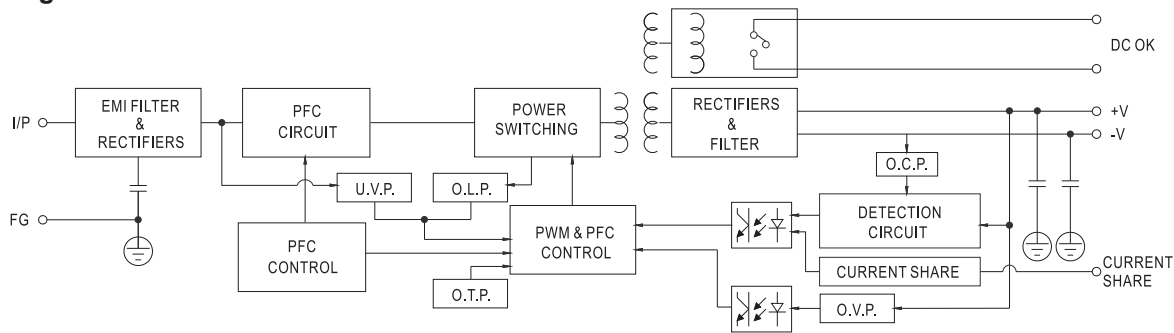


Derating

Deduction Curve and Temperature



Circuit diagram



Characteristic

Minus Output and Input Voltage Curves

