

Technical data sheet

Power supply · LEPOS Power, 3-phase, regulated, 240 W

Primary switchmode power supply, three-phase

Input: wide-range input AC 340-550 V

Output: DC 24 V / 10 A, adjustable



Identification

Type	LEPOS-PWR-240-24
Part No.	722725

Product version

Datasheet version	03
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Input

Number of phases	3
Rated voltage U_N	3 × AC 380–480 V
Operation voltage range	3 x AC 340-550 V / 3 x DC 480-780 V Two-phase operation possible with connection L1, L3, FG or L2, L3, FG - Two-phase operation is permitted under certain output current restrictions. For details, please refer to the derating curves). / DC 480 - 780 V
Frequency range	47 Hz – 63 Hz
Rated current I_N	typ. 0,69 A @ AC 400 V / 0,6 A @ AC 500 V
Inrush current	Cold start 50 A
Leak current	<2 mA / AC 530 V
Internal fuse	T4,0 A / AC 500 V
External protection	Mini-circuit breaker: C 16 A
Power factor correction P.F.C.	typ. PF ≥0.53 @ AC 400 V (at full load) / typ. PF ≥0.52 @ AC 500 V (at full load)

Output

Output voltage/current	DC 24 V/10 A
Rated voltage U_N	DC 24 V

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Rated current I_N	10 A
Max. output current	13 A, 3 s
Power Dissipation	<20 W @ AC 400 V
Setting range $U_{out\ min.}/U_{out\ max.}$	24-28 V
Accuracy	±1 %
Load regulation	±1 %
Line regulation	±0.5 %
Rise time	2000 ms (setup), 60 ms (switch-on time) @ AC 400 V (at full load) / 1500 ms (setup), 60 ms (switch-on time) @ AC 500 V (at full load)
Temperature coefficient	±0.05 % / °C (0-60 °C)
Ripple and noise	≤100 mV pp Ripple and noise are measured with 20 MHz bandwidth, the probe is terminated with a 0.1 µF MKP parallel capacitor.
Hold up time	>20 ms @ AC 400 V >40 ms @ AC 500 V (at full load)
Parallel / redundant mode	Yes/via external decoupling diode e.g. 722999
Efficiency	92 %
Overtemperature protection	105 °C +/- 5 °C, switch-off with auto reset
Over voltage protection	30–36 V, protection: hiccup mode, autoreset after fault rectification
Rated over load protection	105-130 % nominal output power, protection: constant current limitation, device switches to hiccup mode after 3 seconds
Short circuit	Constant current limitation, device switches to hiccup mode after 3 seconds

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	>60 °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	5000 m (The ambient temperature is reduced by 3.5 °C/1000 m if the device is operated at an altitude of more than 2000 m (6500 ft)).
Installation position	Vertical

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MTBF	215.600 h - MIL-HDBK-217F (25 °C) / >1.534.900 h - Telcordia SR-332 (Bellcore)
Degree of protection	IP20
Protection class	I
Weight/unit	1 kg
Connection type	Screw terminal 0.20 mm ² – 2.5 mm ² AWG 24 – AWG 12
Dimensions (w × h × d)	63.0 mm × 125.0 mm × 113.0 mm
PU (units)	1

General ambient conditions

Operation temperature range	-30 °C ... +70 °C Derating >60 °C See also the illustration: Derating curve.
Storage temperature range	-40 °C ... +85 °C
Over voltage category	III, in accordance with EN61558, EN50178, EN60664-1, EN62477-1, EN60204-1; altitude up to 2000 meters
Degree of pollution	2
Relative air humidity	20 – 95 % RH, not condensing
Vibration resistance	2 g / 10 - 500 Hz, 1 hour/direction X,Y,Z non-operating, mounted on DIN-Rail (IEC 60068-2-6)

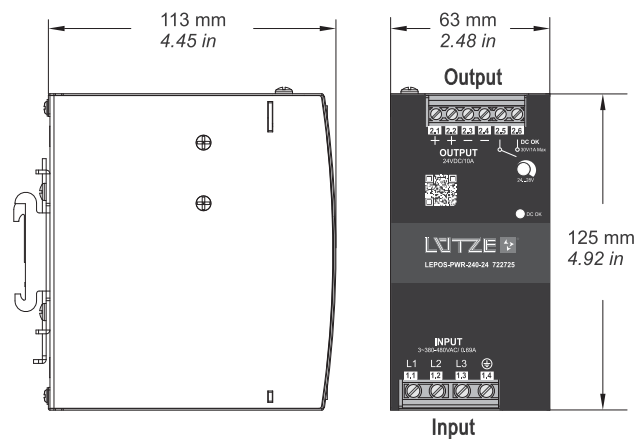
Certifications/Standards

Conformity	CE
Certifications	cULus (E249179)
Standards	EN 55032:2015+A11:2020 EN 55035:2017+A11:2020 EN 61000-3-12:2011 EN 61010-1:2010+A1:2019+AC:2019 EN IEC 61000-3-11:2019 UL 61010-1:2019 UL 61010-2-201:2018

Notes and Comments

Note	All parameters are NOT specifically mentioned for AC 400 V input, rated load and 25 °C ambient temperature. The power supply unit is regarded as a component that is installed in a terminal device. The end device must be reconfirmed that it still complies with the EMC directives. Instructions for carrying out these EMC tests can be found under "EMI testing of power supply components".
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Dimensions



Output / Ausgang / Sortie	
Connection Anschluss Connexion	Description Beschreibung Description
2.1, 2.2	DC OUTPUT +
2.3, 2.4	DC OUTPUT -
2.5, 2.6	DC OK Relay Contact

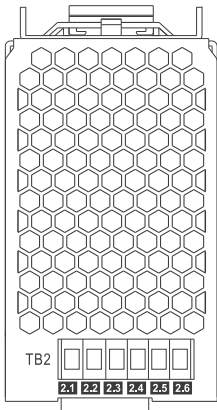
Input / Eingang / Entrée	
Connection Anschluss Connexion	Description Beschreibung Description
1.1	AC/L1
1.2	AC/L2 or DC -
1.3	AC/L3 or DC +
1.4	⏏

Use

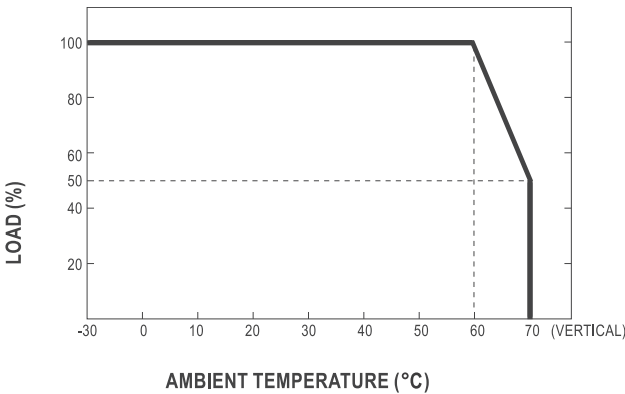
DC OK Relay Contact

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30VDC/1A, 30VAC/0.5A resistive load.

Output / Ausgang / Sortie	
Connection Anschluss Connexion	Description Beschreibung Description
2.1, 2.2	DC OUTPUT +V
2.3, 2.4	DC OUTPUT -V
2.5, 2.6	DC OK Relay Contact



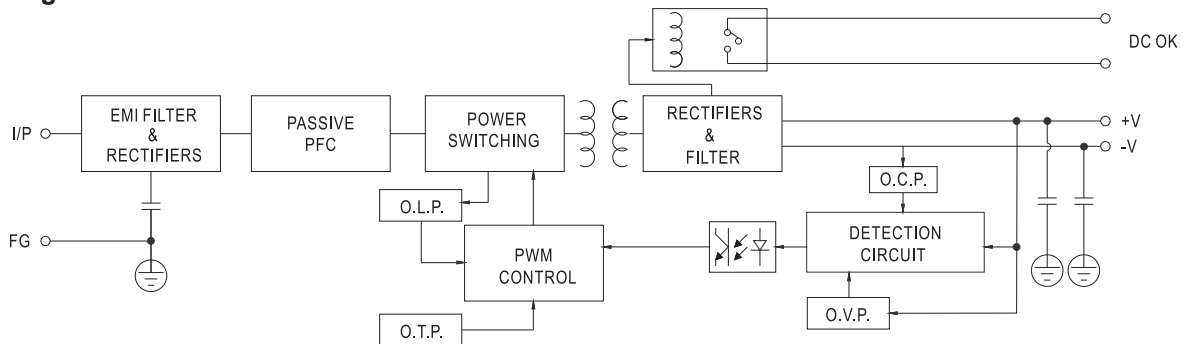
Derating



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Circuit diagram



Characteristic

