

Technical data sheet

Power supply · LEPOS Performance, 1-phase, regulated, 240 W

Primary switchmode power supply, Single-phase
Input: wide-range input AC 90–264 V, DC 127–370 V
Output: DC 24 V / 10 A, adjustable



Identification

Type LEPOS-HP-240-24
Part No. [722716](#)

Product version

Datasheet version 04

Input

Number of phases 1
Rated voltage U_N AC 115/230 V
Operation voltage range AC 90–264 V / DC 127–370 V
Frequency range 47 Hz – 63 Hz
Rated current I_N 2.6 A @ AC 115 V / 2.6 A @ AC 230 V
Inrush current 33 A @ AC 115 V / 55 A @ AC 230 V
Internal fuse T5,0 A / AC 250 V
External protection Mini-circuit breaker: C 16 A
Power factor correction P.F.C. >0.99 @ AC 115V / >0.94 @ AC 230V

Output

Output voltage/current DC 24 V/10 A
Rated voltage U_N DC 24 V
Rated current I_N 10 A
Max. output current >15 A, >3 s
Power Dissipation 19 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$ 24–28 V
Accuracy $\pm 2\%$

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Load regulation	±1 %
Line regulation	±0.5 %
Rise time	650 ms @ 230 V / 1300 ms @ 115 V
Temperature coefficient	±0.03 % / °C
Ripple and noise	100 mV
Hold up time	20 ms @ 115 V / 20 ms @ 230 V
Parallel / redundant mode	Yes/via external decoupling diode e.g. 722999
Efficiency	93 %
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	150 % 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	>60 °C: -6 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	>169300 h: MIL-HDBK-217F
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 × 113.5 mm
PU (units)	1

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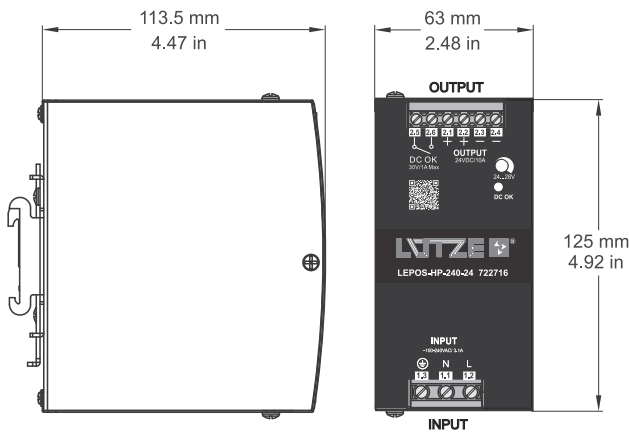
General ambient conditions

Operation temperature range	-25 °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, not condensing

Certifications/Standards

Conformity	CE
Certifications	cULus (E249179)
Standards	EN 55032:2015+A11:2020 EN 55035:2017+A11:2020 EN 62368-1:2014/AC:2015 EN IEC 62368-1:2020+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019+A2:2021 UL 61010-1:2019 UL 61010-2-201:2018

Dimensions



Output / Ausgang / Sortie

Connection Anschluss Connexion	Description Beschreibung Description
2.5, 2.6	Relay Contact
2.1, 2.2	DC OUTPUT +
2.3, 2.4	DC OUTPUT -

Input / Eingang / Entrée

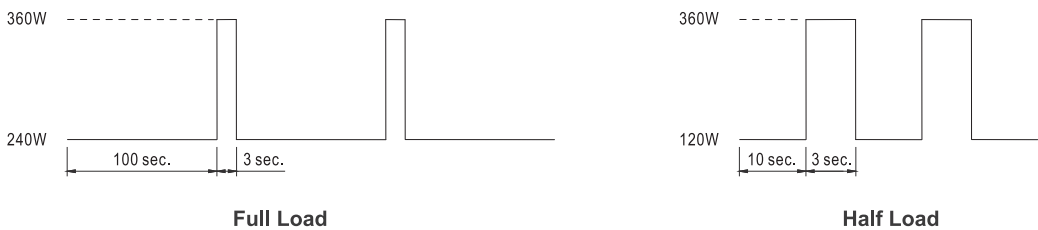
Connection Anschluss Connexion	Description Beschreibung Description
1.3	⊕
1.1	AC/N
1.2	AC/L

Use

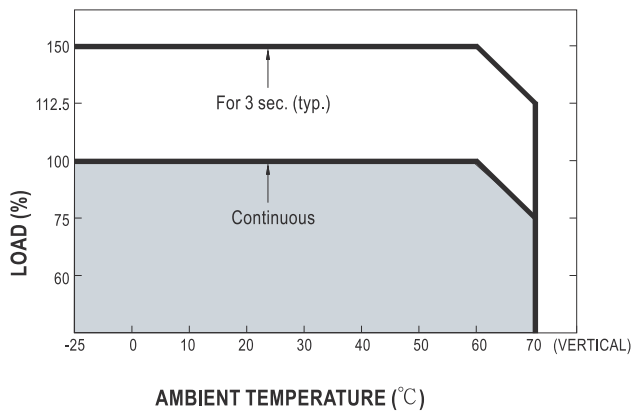
DC OK Relay Contact

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

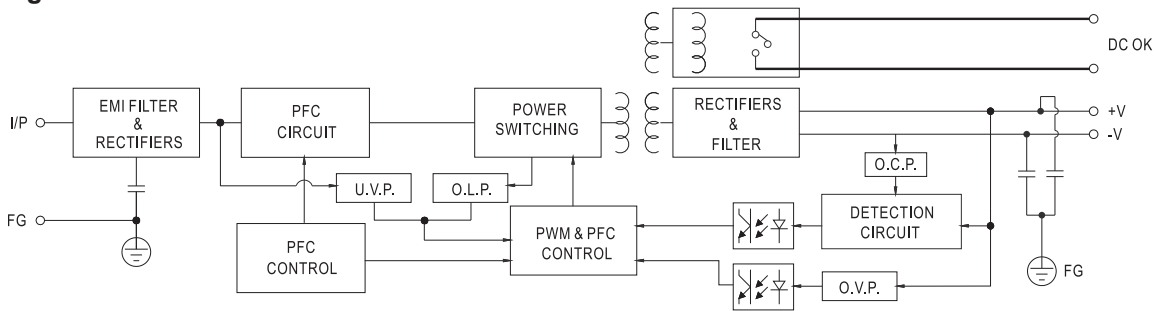
Peak Loading



Derating



Circuit diagram



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Characteristic

