

Technical data sheet

Power supply · LEPOS Performance, 1-phase, regulated, 120 W

Primary switchmode power supply, Single-phase

Input: wide-range input AC 90–264 V, DC 127–370 V

Output: DC 24 V / 5 A, adjustable



Identification

Type	LEPOS-HP-120-24
Part No.	722715

Product version

Datasheet version	04
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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	1.4 A @ AC 115 V / 700 mA @ AC 230 V
Inrush current	35 A @ AC 115 V / 70 A @ AC 230 V
Internal fuse	T3,15 A / AC 250 V
External protection	Mini-circuit breaker: C 16 A
Power factor correction P.F.C.	>0.96 @ AC 115 V / >0.93 @ AC 230 V

Output

Output voltage/current	DC 24 V/5 A
Rated voltage U_N	DC 24 V
Rated current I_N	5 A
Max. output current	7.5 A, 3 s
Power Dissipation	10.5 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	24–28 V
Accuracy	±2 %

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Load regulation	±1 %
Line regulation	±0.5 %
Rise time	1500 ms @ 230 V / 3000 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	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	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: -3 %/°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	>292100 h: MIL HDBK 217F
Degree of protection	IP20
Protection class	I
Weight/unit	0.67 kg
Connection type	Screw terminal 0.20 mm ² – 2.5 mm ² AWG 24 – AWG 12
Dimensions (w × h × d)	40.0 mm × 125.0 mm × 113.0 mm
PU (units)	1

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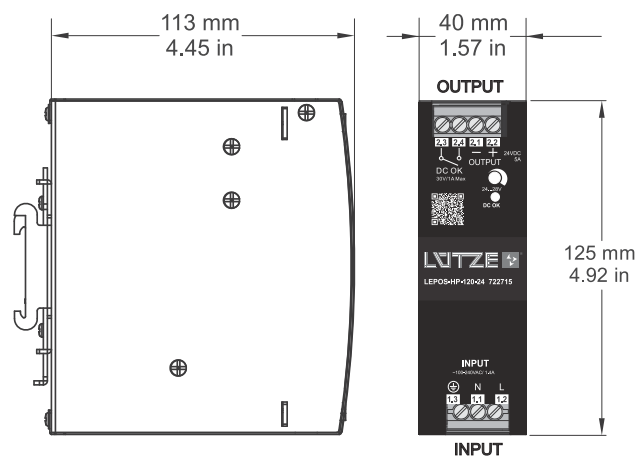
General ambient conditions

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 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 / Ausgang / Sortie

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

Input / Eingang / Entrée

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

Use

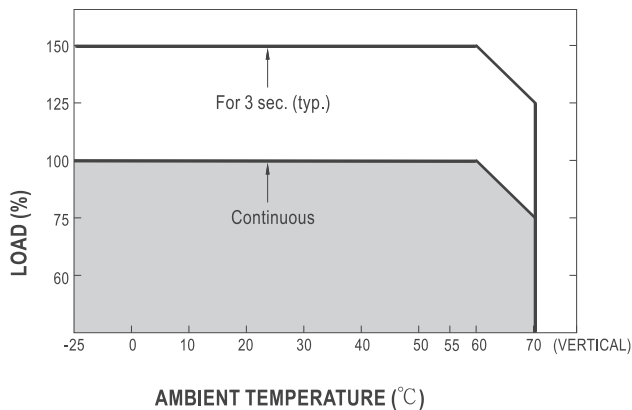
DC OK Relay Contact

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

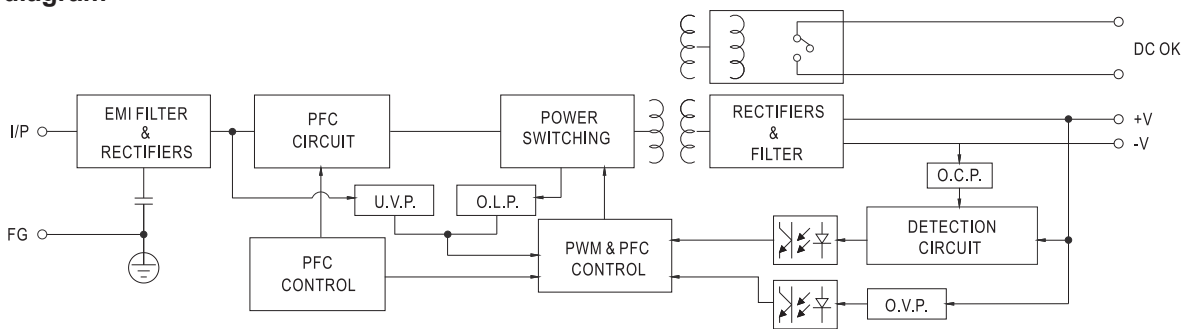
Peak Loading



Derating



Circuit diagram



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Characteristic

