

Technical data sheet

Power supply · LEPOS Low Power, 1-phase, regulated, 20 W

Primary switchmode power supply, Single-phase
Input: wide-range input AC 90–264 V, DC 127–370 V
Output: DC 24 V / 1 A, adjustable



Identification

Type	LEPOS-LP-20-24
Part No.	722707

Product version

Datasheet version	01
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Input

Number of phases	1
Rated voltage U_N	AC 100/240 V
Operation voltage range	AC 90–264 V / DC 127–370 V
Frequency range	47 Hz – 63 Hz
Rated current I_N	0.33 A @ AC 115 V 0.21 A @ AC 230 V
Inrush current	35 A @ AC 115 V / 70 A @ AC 230 V
Internal fuse	T2,0 A / AC 250 V
External protection	Mini-circuit breaker: B 4 A

Output

Output voltage/current	DC 24 V/1 A
Rated voltage U_N	DC 24 V
Rated current I_N	1 A
Max. output current	>1.3 A, >3 s
Power Dissipation	< 0.75 W in standby mode
Setting range $U_{out\ min.}/U_{out\ max.}$	24–28 V
Accuracy	±2 %

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Load regulation	±5 %
Line regulation	±1 %
Rise time	500 ms (setUp), 30 ms (switch-on time) @ AC 230 V (at full load) / 1000 ms (setUp), 30 ms (switch-on time) @ AC 115 V (at full load)
Temperature coefficient	±0.03 % / °C
Ripple and noise	≤150 mV pp
Hold up time	20 ms @ 115 V / 50 ms @ 230 V (at full load)
Parallel / redundant mode	Yes/via external decoupling diode e.g. 722999
Efficiency	84 %
Over voltage protection	27.6–32.4 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	Hiccup

Status indication

Status indication DC ON LED green DC 22-28 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: -0.6 W/°C
Cooling	Air convection, 5 mm distance right/left, 20 mm top, 20 mm bottom
Housing material	Plastic
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m
Installation position	Vertical
MTBF	>236,000 h, MIL-HDBK-217 (25 °C)
Degree of protection	IP20
Protection class	II
Weight/unit	0.15 kg
Connection type	Screw terminal 0.20 mm ² – 2.0 mm ² AWG 24 – AWG 14
Dimensions (w × h × d)	22.5 mm × 92.0 mm × 100.0 mm
PU (units)	1

General ambient conditions

Operation temperature range	-20 °C ... +70 °C (Derating)
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	20 – 90 % RH, non-condensing

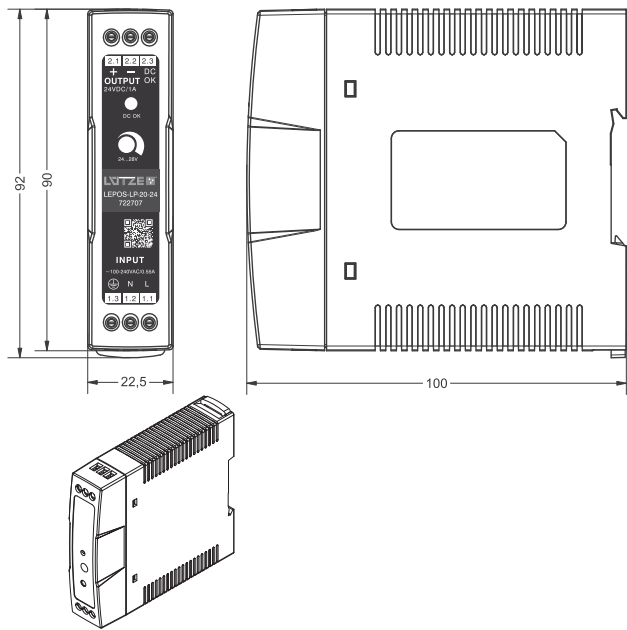
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Certifications/Standards

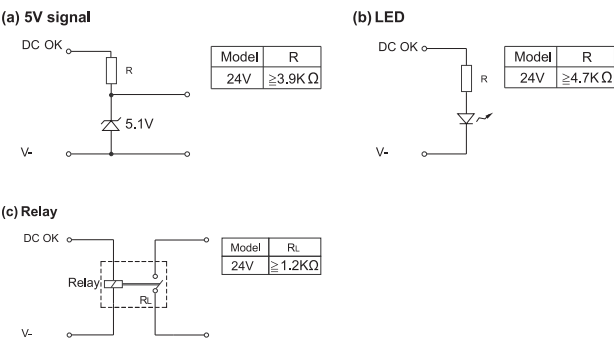
Conformity	CE
Certifications	cULus (E249179)
Standards	EN 55032:2015+A11:2020
	EN 55035:2017+A11:2020
	EN 62368-1:2014/AC:2015
	EN IEC 62368-1:2020+A11:2020
	EN IEC 61000-3-2:2019+A1:2021
	EN 61000-3-3:2013+A1:2019+A2:2021
	UL 508

Dimensions



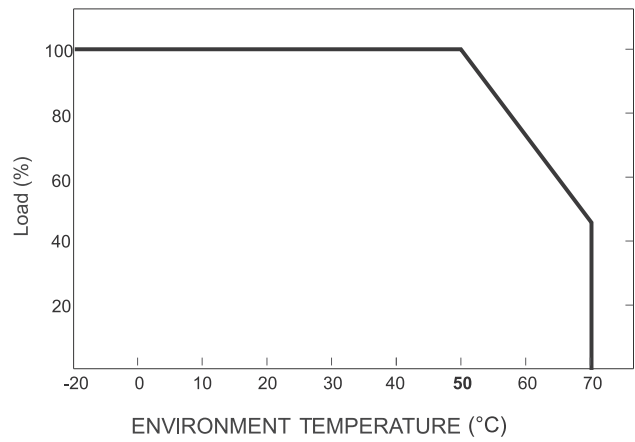
Use

Application of DC OK active signal

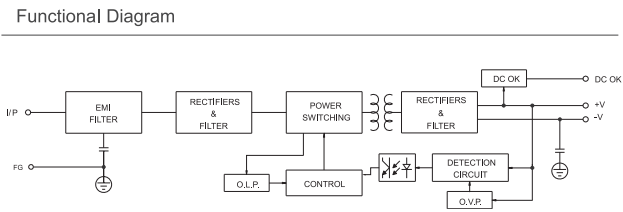


Derating

Deduction curve and temperature



Circuit diagram



Characteristic

Minus output and input voltage curve

