

Technical data sheet · Power supply

regulated, 10 W



Identification

Type
Part-No.

DRA10-05A
728761

Description

Primary switchmode power supply, Single-phase, Class 2
Input: wide-range input AC 90–265 V, DC 120–370 V
Output: DC 5 V, adjustable

10.12.2019 – Subject to technical modification

Part-No. 728761

USA: LUTZE INC.

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www.lutze.com • info@lutze.com

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Input

Number of phases	1
Rated voltage U_N	AC 100–240 V
Operation voltage range	AC 90–265 V / DC 120–370 V
Line frequency	47 – 63 Hz
Rated current I_N	120 mA @ AC 115 V / 70 mA @ AC 230 V
Inrush current	10 A @ AC 115 V / 18 A @ AC 230 V
Internal fuse	2 A Typ-T AC 250 V
External fuse	Mini-circuit breaker: B 4 A

Output

Rated voltage U_N	DC 5 V
Rated current I_N	2 A
Heat dissipation	4 A @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	4.5–5.75 V
Accuracy	±1 %
Load regulation	±2 %
Line regulation	±1 %
Rise time	1 s
Temperature coefficient	±0.03 % / °C
Ripple and Noise	<50 mV
Hold up time	25 ms @ 115 V / 100 ms @ 230 V
Status indication DC ON LED green	≥4.5 V
Status indication DC LOW LED red	<3.75–4.50 V
Parallel / redundant mode	max. 2 devices / via external decoupling diodes
Efficiency	73 %
Over voltage protection	125–145 %
Rated over load protection	110–135 %
Short circuit	Hiccup Mode

Monitoring

DC ON Control (Rdy)	LED green/red
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General

Switching frequency	approx. 100 kHz
Insulation voltage input / output	AC 3.0 kV _{eff}
Insulation voltage input / ground	AC 1.5 kV _{eff}
Insulation resistance at DC 500 V	100 MΩ
Derating	Capacity: -3 %/°C starting at +60 °C
Operation temperature range	-20 °C ... +70 °C (Derating)
Storage temperature range	-25 °C ... +85 °C
Relative air humidity	20 – 95 % RH, not condensing

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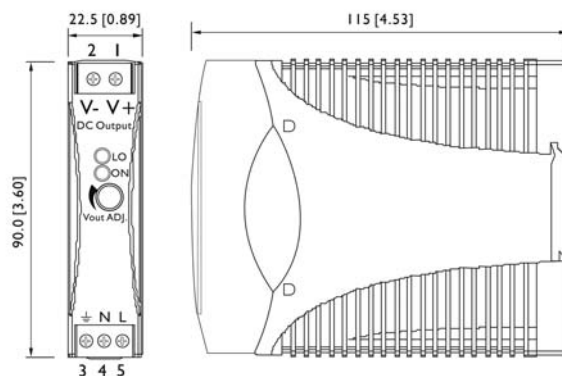
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Cooling	Air convection, 25 mm clearance all-round
Housing material	Plastic
Mounting	DIN rail mountable TS35 (EN 60715)
Application height	2000 m
Installation position	vertical
Protection class	IP20
Protection class	II (SELV, PELV)
Over voltage category	II
Degree of pollution	2
Weight	0.120 kg/piece
Connection type	Spring terminal 0.20 mm ² – 2.0 mm ²
Dimensions (w × h × d)	22.5 × 90.0 × 115.0 mm
Certifications	UL 508 listed UL 60950-1 UL 1310 Class 2 EN 60950-1 EN 50081-1 EN 55022 Class B EN 61000-3-2 EN 61000-3-3 EN 50082-1 EN 55024 Class I Division 2, Groups A, B, C, D
MTBF	801000 h
PU	1 piece

Dimensions

mm [inch]



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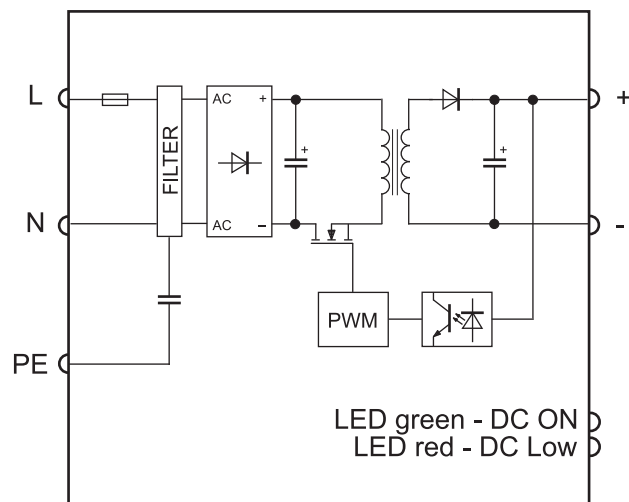
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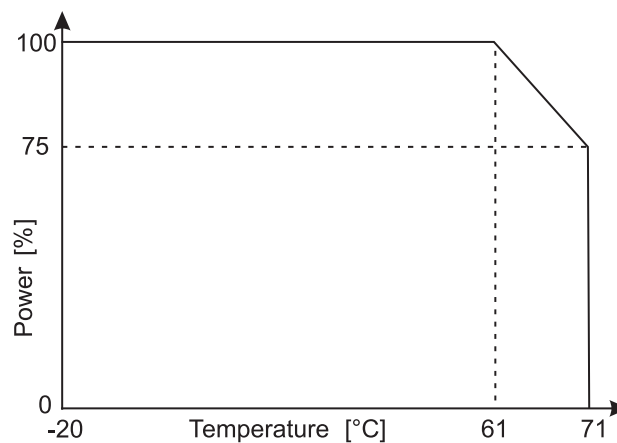
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PIN assignment



Derating



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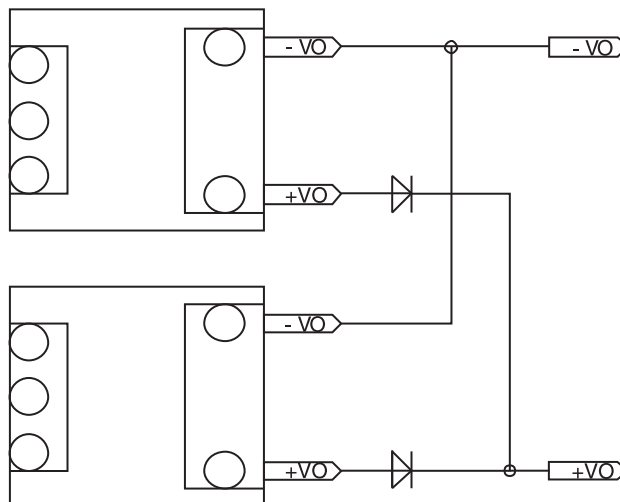
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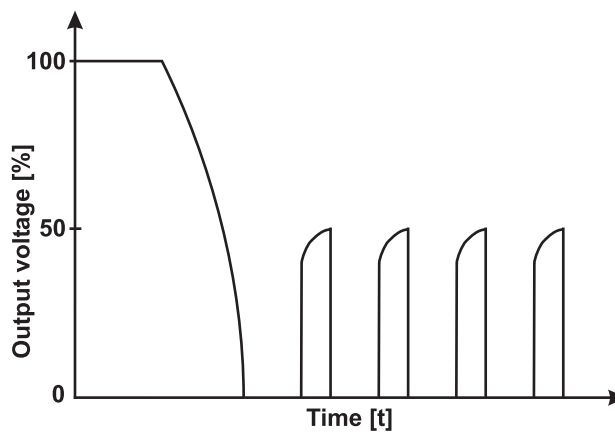
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Redundant operation



Short circuit characteristics



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