

Technical data sheet

Power supply · 120 W

Primary switchmode power supply, PFC, Single-phase

Input: AC 90–132 V, AC 180–264 V, DC 210–375 V

Output: DC 24 V, 5 A



Identification

Type	DRAN120-24A
Part No.	728758

Product version

Datasheet version	01
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Input

Number of phases	1
Rated voltage U_N	AC 115 / 230 V (auto select)
Operation voltage range	AC 90–132 V / AC 180–264 V / DC 210–375 V
Frequency range	47 Hz – 63 Hz
Rated current I_N	2.2 A @ AC 115 V / 0.83 A @ AC 230 V
Inrush current	24 A @ AC 115 V / 48 A @ AC 230 V
Internal fuse	T3, 15 A/AC 250 V
External protection	Mini-circuit breaker: B 6 A
Power factor correction P.F.C.	0.7

Output

Output voltage/current	DC 24 V/5 A
Rated voltage U_N	DC 24 V
Rated current I_N	5 A
Power Dissipation	20 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	22.5–28.5 V
Accuracy	±1 %
Load regulation	Single ±1 %, Parallel ±5 %

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
www.lutze.com • sales.gb@lutze.co.uk

Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt
Tel. +49 (0)7151 6053-0 • Fax +49 (0)7151 6053-277(-288)
www.luetze.de • info@luetze.de

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Line regulation	±0.5 %
Rise time	500 ms
Temperature coefficient	±0.03 % / °C
Ripple and noise	50 mV
Hold up time	25 ms @ 115 V / 30 ms @ 230 V
Parallel / redundant mode	Max. 3 units at 90% load current, manual switch S/P
Efficiency	87 %
Over voltage protection	125–145 %
Rated over load protection	110–145 %
Short circuit	Fold Forward

Status indication

Status indication DC ON LED green	≥17.6–19.4 V
Status indication DC LOW LED red	≤17.6–19.4 V

Monitoring

DC ON Control (Rdy)	N/O contact
Switching voltage	DC 60 V
Switching current	Max. 300 mA
Isolation voltage	DC 500 V

General

Switching frequency	Approx. 80 kHz
Insulation voltage input / output	DC 4.2 kV
Insulation voltage input / ground	DC 2.1 kV
Insulation voltage output / ground	DC 700 V
Insulation resistance at DC 500 V	100 MΩ
Derating	Capacity: -2.5 %/°C starting at 60 °C
Cooling	Air convection, 25 mm clearance all-round
Housing material	Metal
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	5000 m (EN 62368-1)
Installation position	Vertical
MTBF	530000 h
Degree of protection	IP20
Protection class	I
Weight/unit	0.92 kg
Connection type	Screw terminal 0.20 mm ² – 4.0 mm ² AWG 24 – AWG 10
Dimensions (w × h × d)	64.0 mm × 125.5 mm × 116.6 mm
PU (units)	1

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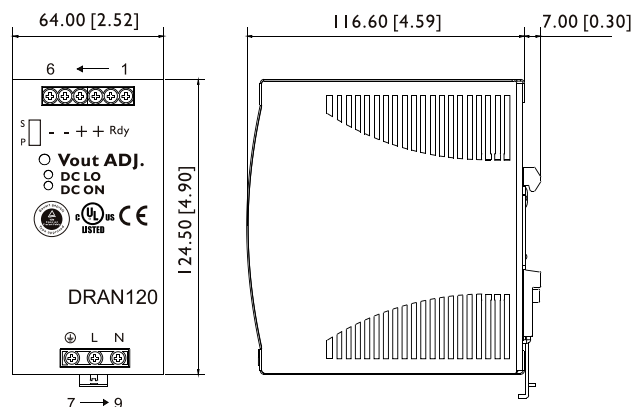
General ambient conditions

Operation temperature range	-35 °C ... +71 °C (Derating)
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	20 – 90 % RH, not condensing

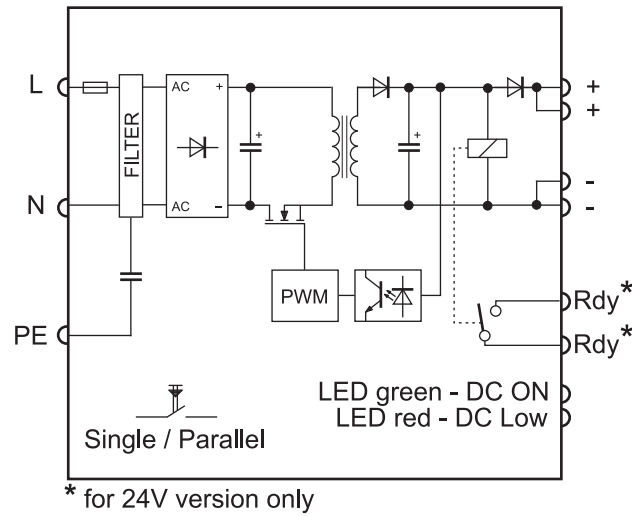
Certifications/Standards

Certifications	UL 508 Listed (E249179) UL 60950-1, (Class 1, Division 2, Groups A, B, C and D) (E350538) CE UKCA
Standards	IEC/EN 62368-1 EN 61558-1 EN 61558-2-16 EN 61000-6-3 EN 55032 Class B EN 61000-3-2 Class D EN 61000-3-3 EN 61000-6-2 EN 55024 EN 61000-4-2 Level 4 EN 61000-4-3 Level 3 EN 61000-4-4 Level 4 EN 61000-4-5 L-N Level 3 L/N-FG Level 4 EN 61000-4-6 Level 3 EN 61000-4-8 Level 4 EN 61000-4-11 ENV 50204 Level 2 EN 61204-3

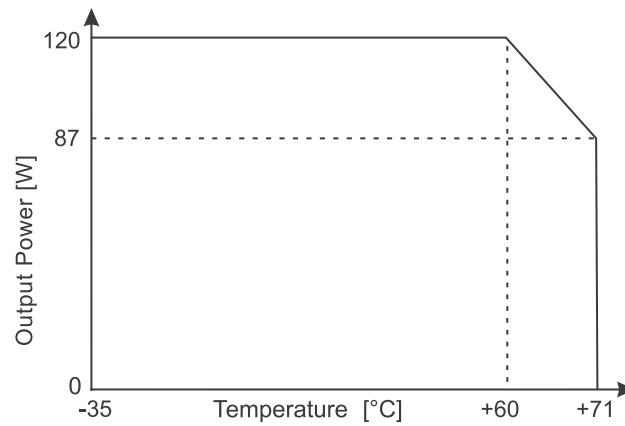
Dimensions



PIN assignment



Derating



Parallel/redundant mode

