

Technical data sheet

Power supply · 30 W

Primary switchmode power supply, Single-phase, NEC Class 2 compliant

Input: AC 90–264 V, DC 120–375 V

Output: DC 24 V, 1.25 A



Identification

Type DRAN30-24A
Part No. [722753](#)

Product version

Datasheet version 01

Input

Number of phases 1
Rated voltage U_N AC 100–240 V
Operation voltage range AC 90–264 V / DC 120–375 V
Frequency range 47 Hz – 63 Hz
Rated current I_N 560 mA @ AC 115 V / 330 mA @ AC 230 V
Inrush current 20 A @ AC 115 V / 40 A @ AC 230 V
Internal fuse T2A / AC 250 V
External protection Mini-circuit breaker: B 4 A

Output

Output voltage/current DC 24 V/1.25 A
Rated voltage U_N DC 24 V
Rated current I_N 1.25 A
Power Dissipation 5.5 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$ 24–28 V
Accuracy $\pm 1\ %$
Load regulation $\pm 0.5\ %$
Line regulation $\pm 0.5\ %$

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Rise time	2 s
Temperature coefficient	±0.03 % / °C
Ripple and noise	<50 mV
Hold up time	20 ms @ 115 V / 30 ms @ 230 V
Parallel / redundant mode	Max. 2 devices / via external decoupling diodes e.g. 722987
Efficiency	86 %
Over voltage protection	125–137 %
Rated over load protection	110–150 %
Short circuit	Fold Forward

Status indication

Status indication DC ON LED green 18 V

Monitoring

DC ON Control (Rdy)	Open Collector
Switching voltage	DC 24 V
Switching current	≤35 mA
Isolation voltage	None

General

Switching frequency	55 – 135 kHz
Insulation voltage input / output	DC 4.2 kV
Insulation voltage input / ground	DC 2.1 kV
Insulation voltage output / ground	DC 710 V
Insulation resistance at DC 500 V	100 MΩ
Derating	2.5 %/°C starting 61 °C
Cooling	Air convection, 25 mm clearance all-round
Housing material	Plastic
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	5000 m (EN 62368-1)
Installation position	Vertical
MTBF	665000 h
Degree of protection	IP20
Protection class	I
Weight/unit	0.29 kg
Connection type	Screw terminal 0.20 mm ² – 2.5 mm ² AWG 26 – AWG 12
Dimensions (w × h × d)	40.5 mm × 90.0 mm × 115.0 mm
PU (units)	1

General ambient conditions

Operation temperature range	-40 °C ... +70 °C (Derating)
Storage temperature range	-40 °C ... +85 °C

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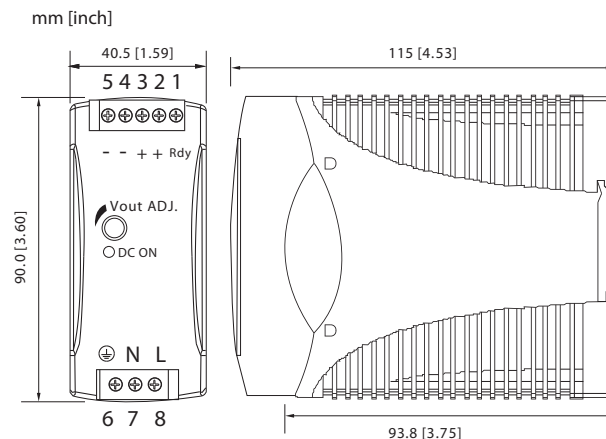
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Over voltage category	II
Degree of pollution	2
Relative air humidity	20 – 95 % RH, not condensing

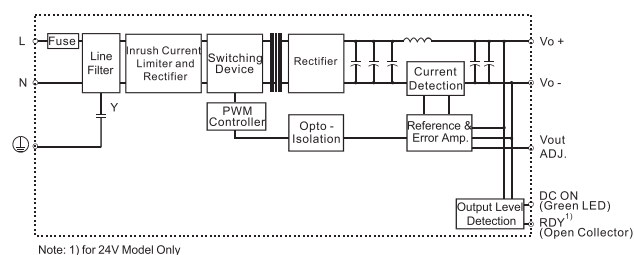
Certifications/Standards

Certifications	UL 508 Listed (E249179) UL 1310 Class 2 (E320708), (Class 1, Division 2, Groups A, B, C and D) (E350538) UL 60950-1 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



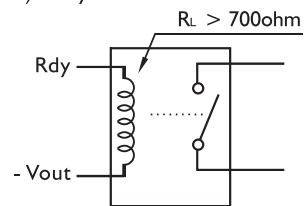
PIN assignment



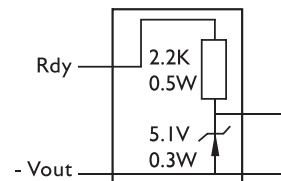
Use

Rdy connection

a) Relay

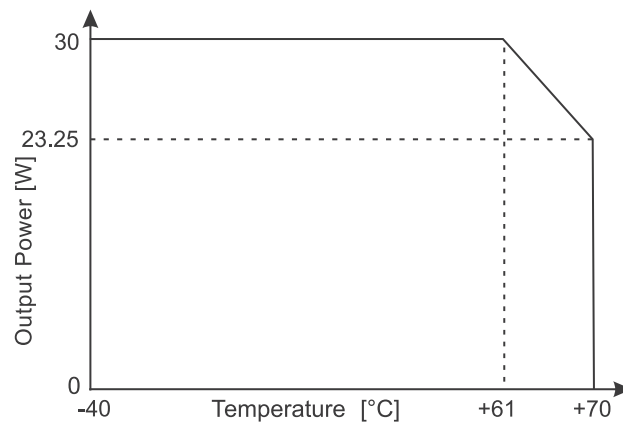


b) 5V signal



Note: for 24V Model only

Derating



Short circuit characteristics

