

Technical data sheet

Power supply · 18 W

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

Input: AC 90–264 V, DC 120–375 V

Output: DC 24 V, 0.75 A



Identification

Type	DRA18-24
Part No.	722752

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 120–375 V
Frequency range	47 Hz – 63 Hz
Rated current I_N	335 mA @ AC 115 V / 210 mA @ AC 230 V
Inrush current	15 A @ AC 115 V / 30 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/0.75 A
Rated voltage U_N	DC 24 V
Rated current I_N	0.75 A
Power Dissipation	4.45 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	21.6–28.8 V
Accuracy	±1 %
Load regulation	±2 %
Line regulation	±1 %

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Rise time	1 s
Temperature coefficient	±0.03 % / °C
Ripple and noise	<50 mV
Hold up time	20 ms @ 115 V / 75 ms @ 230 V
Parallel / redundant mode	Max. 2 devices / via external decoupling diodes
Efficiency	77 %
Over voltage protection	125–145 %
Rated over load protection	110–135 %
Short circuit	Hiccup Mode

Status indication

Status indication DC ON LED green	≥21.6 V
Status indication DC LOW LED red	<18–21.6 V

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
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	800000 h
Degree of protection	IP20
Protection class	II (SELV, PELV)
Weight/unit	0.15 kg
Connection type	Spring terminal 0.20 mm ² – 2.0 mm ² AWG 24 – AWG 14
Dimensions (w × h × d)	22.5 mm × 90.0 mm × 115.0 mm
PU (units)	1

General ambient conditions

Operation temperature range	-20 °C ... +70 °C (Derating)
Storage temperature range	-25 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	20 – 95 % RH, not condensing

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Certifications/Standards

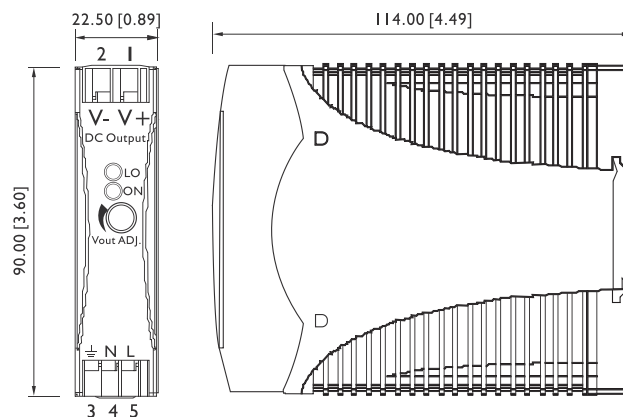
Certifications

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

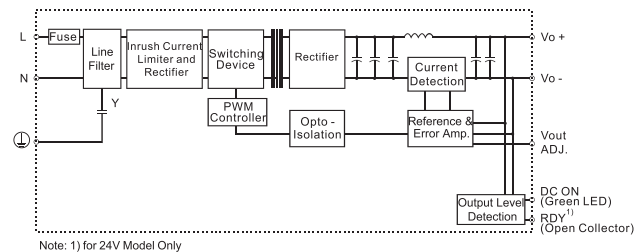
Standards

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



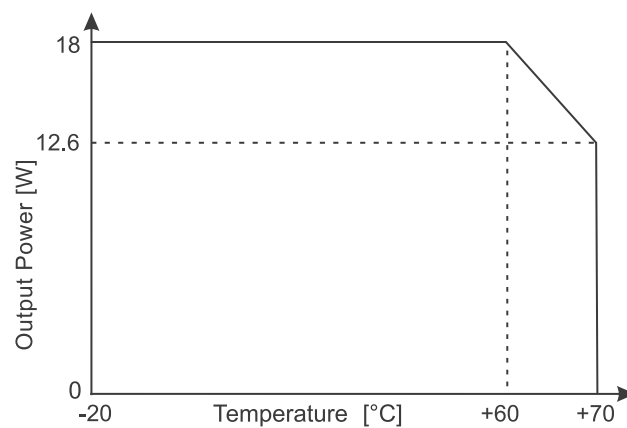
PIN assignment



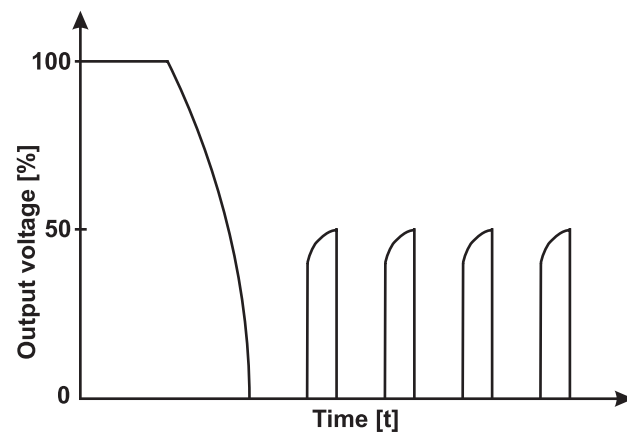
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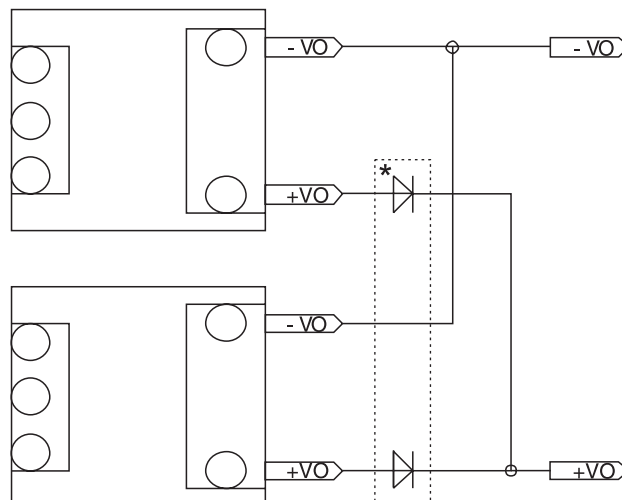
Derating



Short circuit characteristics



Redundant operation



* Redundant Module 722987
Only use together with 24 V version!