

Technical data sheet

Power supply · 480 W

Primary switchmode power supply, PFC, Single-phase

Input: AC 90–264 V, DC 120–375 V

Output: DC 24 V, 20 A



Identification

Type	DRA480-24A
Part No.	722782

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 90–264 V / DC 120–375 V
Frequency range	47 Hz – 63 Hz
Rated current I_N	4.9 A @ AC 115 V / 2.5 A @ 230 V
Inrush current	25 A @ AC 115 V / 50 A @ AC 230 V
Internal fuse	T10 A/AC 250 V
External protection	Mini-circuit breaker: B 16 A
Power factor correction P.F.C.	0.99

Output

Output voltage/current	DC 24 V/20 A
Rated voltage U_N	DC 24 V
Rated current I_N	20 A
Power Dissipation	63 W @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	22.5/28.5 V
Accuracy	±1 %
Load regulation	Single ±0.5 %, Parallel ±5 %

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Line regulation	±0.5 %
Rise time	1 s
Temperature coefficient	±0.03 % / °C
Ripple and noise	100 mV
Hold up time	Min. 30 ms
Parallel / redundant mode	Max. 3 units at 90% load current, manual switch S/P
Efficiency	89 %
Over voltage protection	125–137 %
Rated over load protection	120–140 %
Short circuit	Current limit

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 +56 °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	469000 h
Degree of protection	IP20
Protection class	I
Weight/unit	1.92 kg
Connection type	Screw terminal 0.20 mm ² – 4.0 mm ² AWG 24 – AWG 10
Dimensions (w × h × d)	175.5 mm × 124.5 mm × 116.6 mm
PU (units)	1

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General ambient conditions

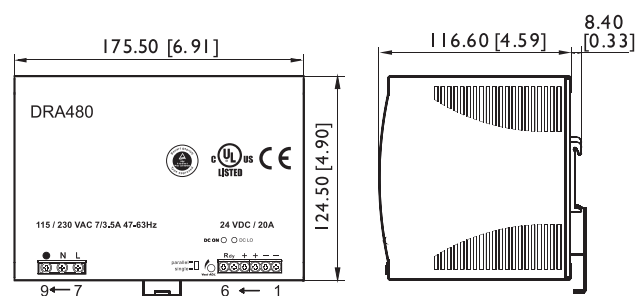
Operation temperature range	-40 °C ... +71 °C (Derating)
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	20 – 90 % RH, not condensing

Certifications/Standards

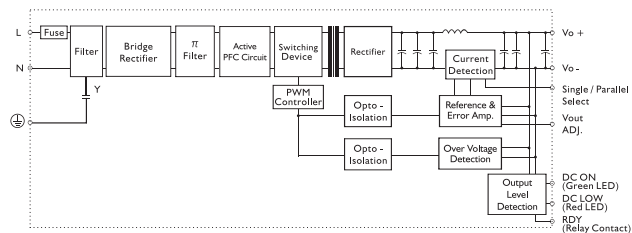
Certifications	UL 508 Listed (E249179) UL 60950-1, (Class 1, Division 2, Groups A, B, C and D) (E350538) CE UKCA
Standards	IEC/EN 62368-1 EN 61558-1 EN 61558-2-16 EN 61000-6-3 EN 55032 Class B EN 61000-3-2 Class D EN 61000-3-3 EN 61000-6-2 EN 55024 EN 61000-4-2 Level 4 EN 61000-4-3 Level 3 EN 61000-4-4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

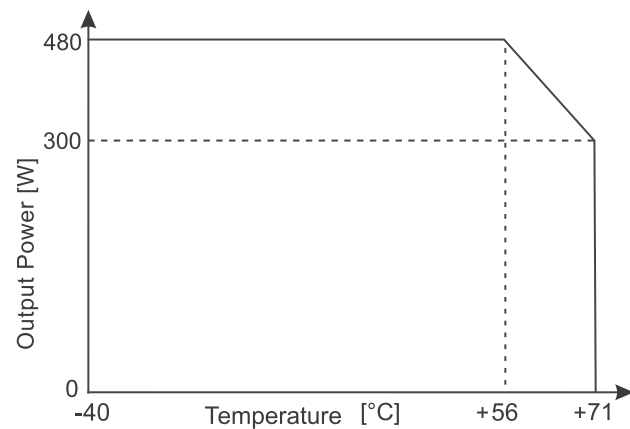
mm [inch]



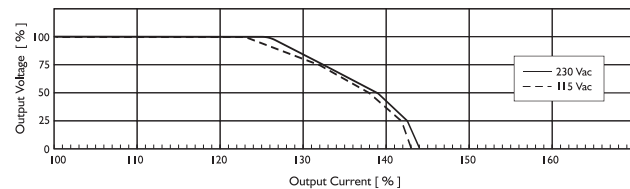
PIN assignment



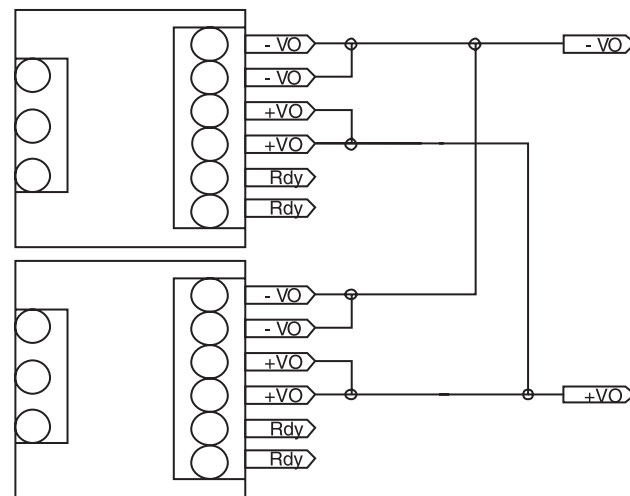
Derating



Short circuit characteristics



Parallel/redundant mode



Efficiency

