

## DIN rail power supply unit DRA480-24



- Single-phase input: 90 VAC to 264 VAC
- Output: 24 VDC to 61 °C
- Output power of 480 watts (20 A)
- Robust metal housing with top-hat rail mounting

<https://www.wachendorff-prozesstechnik.de/en/DRA480-24>

### Description

The DRA480-24 power supply units are high-quality switched-mode power supply units for DIN rail mounting. They impress with their compact and intelligent design as well as their robust metal housing. The output voltage is easy and simple to adjust (22.5 VDC to 28.5 VDC) and is highly stable even with temperature fluctuations and load changes.

In addition to short-circuit protection, overload and overvoltage protection at the output also ensure a high level of safety.

### Product details

Input voltage range:	90 VAC to 264 VAC
Nominal input voltage:	90 VAC to 264 VAC or 120 to 375 VDC
Inrush current:	(115/230 VAC): 25/50 A
Input current:	(115 /230 VAC): 7.0 A / 3.5 A
Internal fuse:	T10 A / 250 VAC
Output voltage:	Factory setting +/-1 %: 24 VDC
Output voltage adjustment range:	22.5 VDC to 28.5 VDC
Switch-on delay:	after applying the supply: 1 second (max.)
Isolation:	Input/output insulation voltage: 3,000 VAC Insulation voltage input/PE: 1,500 VAC Insulation voltage output/PE: 500 VAC
Continuous current:	at 24 VDC < 25 °C (In): 20 A (permanent) at 28.5 VDC < 25 °C (In): 16.8 A
Hold-up time:	at 115/230 VAC and 25 °C : typically 25/30 milliseconds
Ripple:	100 mVpp
efficiency:	89 % (230 VAC)
Maximum power loss:	63 watts at 25 °C (230 VAC)
Overload protection:	110 to 140 %
Short-circuit protection:	Fold-forward mode
Overvoltage protection:	Auto recovery with 30 to 33 VDC

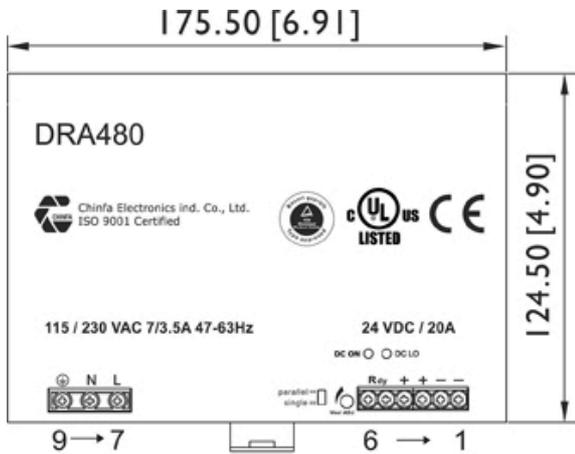
Standards and approvals:	UL 508 Listed UL 60950-1 Recognized ISA 12.12.01 (Class I, Division 2, Groups A, B, C and D) TÜV EN 62368-1, EN 61558-1, EN 61558-2-16 (meet EN 60204-1) cTÜVus UL 62368-1 CE EN 61000-6-3, EN 55032 Class B, EN 61000-3-2, EN 61000-3-3 CE EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 CE EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 CE EN 61000-4-6 Level 3, EN 61000-4-8 Level 4, EN 61000-4-11 CE ENV 50204 Level 2, EN 61204-3
--------------------------	---

Reliability:	MTBF 469,000 hours
Protection class:	IP20
Housing:	Sturdy metal housing. Mounting on the top-hat rail.
Dimensions (WxHxD):	175.5 mm x 124.5 mm x 116.6 mm
Connection:	Screw terminals: AWG24-10 with 0.2 to 4 mm <sup>2</sup> cross-section Removable terminals: AWG24-12 with 0.2 to 2.5 mm <sup>2</sup> cross-section
Relative humidity:	max. 95 % rH at 25 °C, non-condensing.
Ambient temperature:	Operation: -40 °C to +71 °C ( > 61 °C leads to a reduction of the operating values by 2.5 % / °C ) Storage: -40 °C to +85 °C.
Weight:	approx. 1920 g
Scope of delivery:	Device, operating instructions.
Manufacturer:	Chinfa Electronics Ind. Co, Ltd.

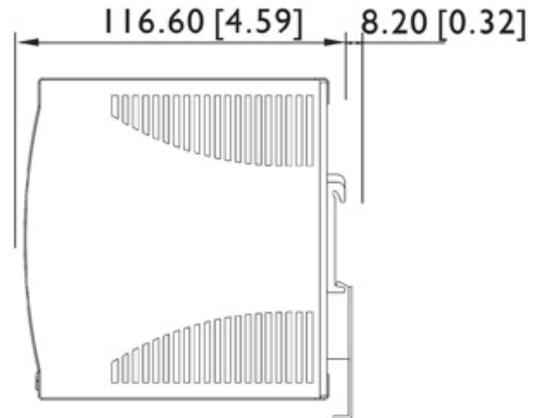
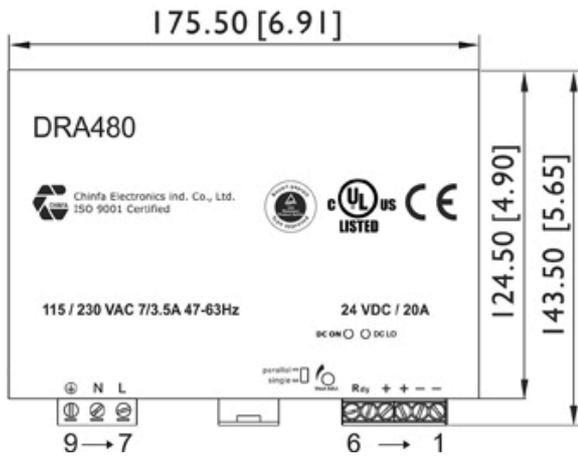
### Products Order no.

DRA480-24A	Power supply unit for top-hat rail, 115/230 VAC, 24 VDC 20 A
DRA480-24B	Power supply unit for top-hat rail, 115/230 VAC, 24 VDC 20 A, removable screw terminal

**Drawings**  
**Dimensions**



Abmessungen in mm [Inch]





Wachendorff Prozesstechnik GmbH & Co. KG  
Industriestrasse 7 • 65366 Geisenheim  
Germany

Phone: +49 (0) 67 22 / 99 65 - 20  
E-Mail: [wp@wachendorff.de](mailto:wp@wachendorff.de)  
[www.wachendorff-prozesstechnik.de](http://www.wachendorff-prozesstechnik.de)

