

## DIN rail power supply unit DRS1-24



- Single-phase input: 85 VAC to 264 VAC
- Output: 24 VDC to 51 °C
- Output power of 30 watts (1.25 A)
- Temperature range from -25 °C to +71 °C
- Robust plastic housing with top-hat rail mounting

<https://www.wachendorff-prozesstechnik.de/en/DRS1-24>

### Description

The DRS1-24 power supply unit is a high-quality switching power supply unit for DIN rail mounting with an excellent price/performance ratio. It impresses with its compact and intelligent design as well as its robust plastic 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:	100 VAC to 240 VAC
Nominal input voltage:	85 VAC to 264 VAC or 120 to 375 VDC
Inrush current:	(115 /230 VAC): 20/40 A
Input current:	(115 /230 VAC): 335 mA / 210 mA
Internal fuse:	T2 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 sec (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): 1.25 A (permanent) at 28.5 VDC < 25 °C (In): 1 A
Hold-up time:	at 115/230 VAC and 25 °C : typically 20/50 milliseconds
Ripple:	100 mVpp
efficiency:	85 % (230 VAC)
Maximum power loss:	5.7 watts at 25 °C (230 VAC)
Overload protection:	min. 140 %
Short-circuit protection:	HICCUP mode
Overvoltage protection:	Auto recovery with 28.8 to 32.4 VDC

Standards and approvals:	UL 508 Listed / UL 60950-1 Recognized TÜV EN 60950-1 EN 61000-6-3, EN 55022 Class B EN 61000-3-2, 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 EN 61000-4-6 Level 3, EN 61000-4-8 Level 4 EN 61000-4-11 ENV 50204 Level 2, EN 61204-3
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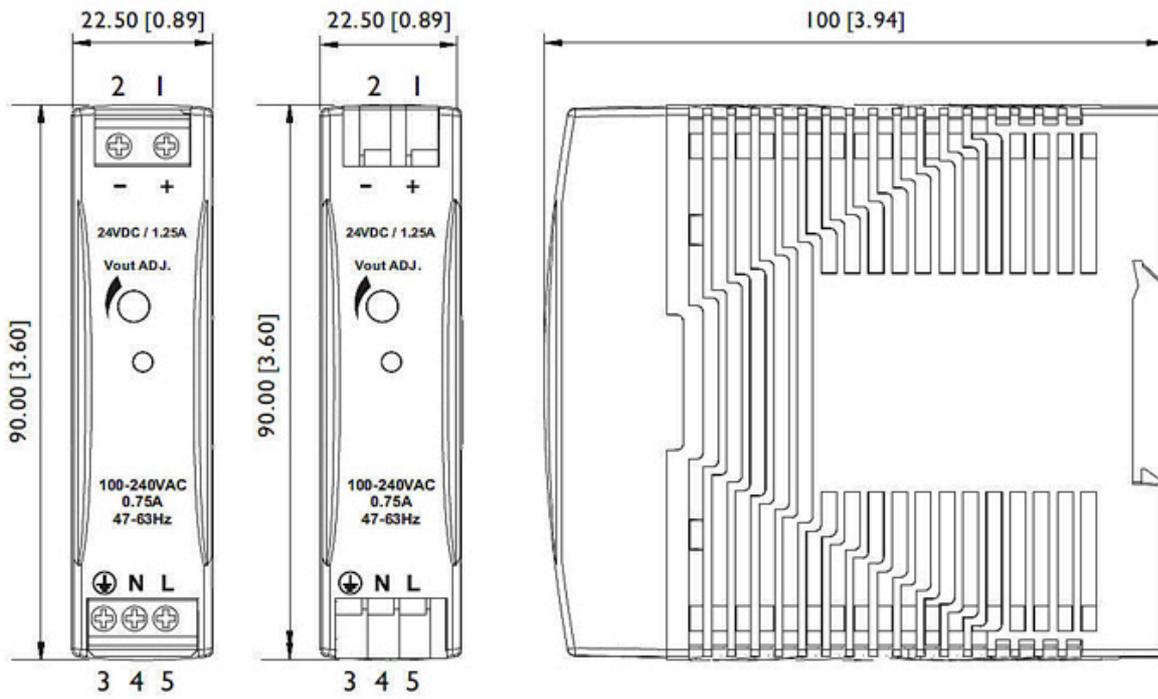
Reliability:	MTBF 764,000 hours
Protection class:	IP20
Housing:	Sturdy plastic housing. Mounting on the top-hat rail.
Dimensions (WxHxD):	22.5 mm x 90 mm x 100 mm
Connection:	Screw terminals: AWG26-12 with 0.2 to 2.5 mm <sup>2</sup> cross-section Spring terminals: AWG24-14 with 0.2 to 2 mm <sup>2</sup> cross-section

Relative humidity:	max. 95 % rH at 25 °C, non-condensing.
Ambient temperature:	Operation: -25 °C to +71 °C ( > 51 °C leads to a reduction of the operating values by 2.5 % / °C ) Storage: -40 °C to +85 °C.
Weight:	approx. 140 g
Scope of delivery:	Device, operating instructions.
Manufacturer:	Chinfa Electronics Ind. Co, Ltd.

### Products Order no.

DRS1-24	Power supply unit for top-hat rail, 85 to 264 VAC, 24 VDC 1.25 A, spring terminal
DRS1-24A	Power supply unit for top-hat rail, 85 to 264 VAC, 24 VDC 1.25 A, screw terminal

**Drawings**  
**Dimensions**



mm [inch]



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