

DIN rail power supply DRAN120-24



- Single-phase input: 115/230 VAC
- Output: 24 VDC up to 61 °C
- Output power of 120 watts (5 A)
- Robust metal housing with DIN rail mounting

<https://www.wachendorff-prozesstechnik.de/en/DRAN120-24>

Description

The DRAN120-24 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:	115/230 VAC (automatic selection)
Nominal input voltage:	115 VAC: 90 VAC to 132 VAC 230 VAC: 180 VAC to 264 VAC or 210 to 375 VDC
Inrush current:	(115 / 230 VAC): 24/48 A
Input current:	(115 / 230 VAC): 2.8 A / 1.4 A
Internal fuse:	T3.15 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 27.2 VDC < 25 °C (In): 5 A (permanent) at 28.5 VDC < 25 °C (In): 4.2 A
Hold-up time:	at 115/230 VAC and 25 °C : typically 25/30 milliseconds
Ripple:	≤ 50 mVpp
efficiency:	≥ 86 % (115/230 VAC)
Maximum power loss:	20 watts at 25 °C (230 VAC)
Overload protection:	110 to 145 %
Short-circuit protection:	Fold-forward mode
Overvoltage protection:	Auto recovery with 30 to 33 VDC

Standards and approvals:

UL 508 Listed
UL 60950-1, UL 1310 Class 2 Power
(24AL model only) 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

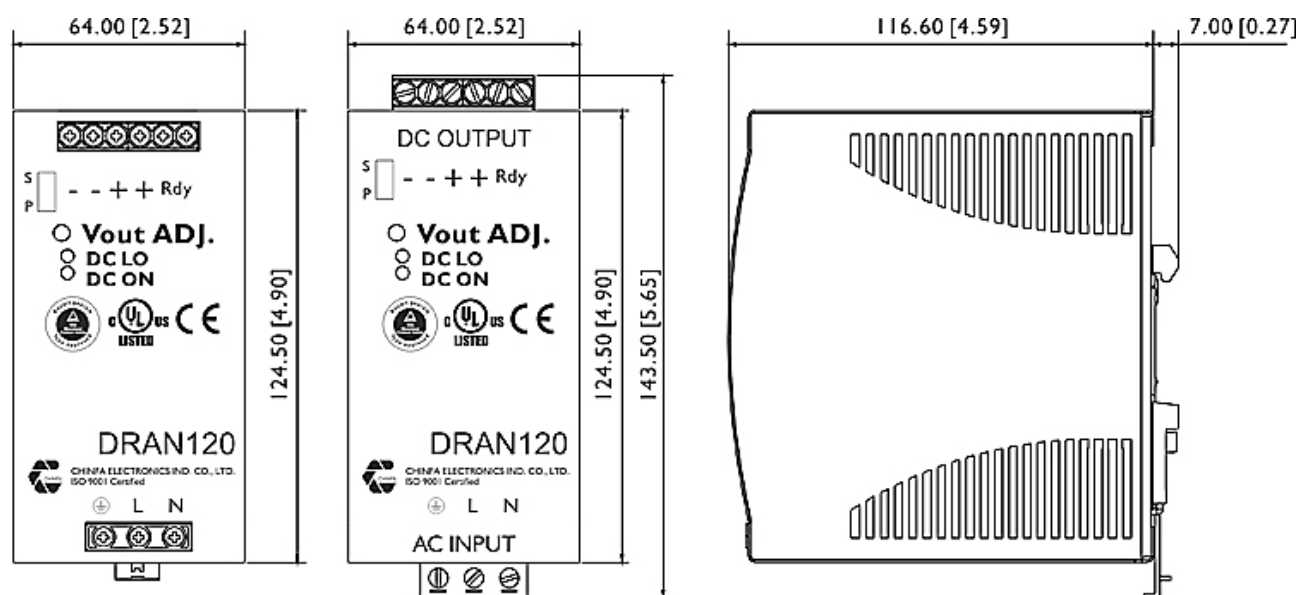
Reliability:	MTBF 530,000 hours
Protection class:	IP20
Housing:	Sturdy metal housing. Mounting on the DIN rail.
Dimensions (WxHxD):	64 mm x 124.5 mm x 116.6 mm
Connection:	Screw terminals: AWG24-10 with 0.2 to 4 mm ² cross-section Removable terminal: AWG24-12 with 0.2 to 2.5 mm ² cross-section
Relative humidity:	max. 95 % rH at 25 °C, non- condensing.
Ambient temperature:	Operation: -35 °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. 920 g
Scope of delivery:	Device, operating instructions.
Manufacturer:	Chinfa Electronics Ind. Co, Ltd.

Products Order no.

DRAN120-24A	Power supply unit for DIN rail, 85 to 264 VAC, 24 VDC 5 A
DRAN120-24B	Power supply unit for DIN rail, 115/230 VAC, 24 VDC 5 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
www.wachendorff-prozesstechnik.de

