

DIN rail power supply unit WRA120-24



- Three-phase input: 3 x 340 VAC to 575 VAC
- Output: 24 VDC up to 61 °C
- Output power of 120 watts (5 A)
- Overtemperature and short-circuit protection
- Robust metal housing with DIN rail mounting

<https://www.wachendorff-prozesstechnik.de/en/WRA120-24>

Description

The WRA120-24 power supply unit is a high-quality switched-mode power supply unit for DIN rail mounting. It impresses with its compact and aesthetic design as well as its 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

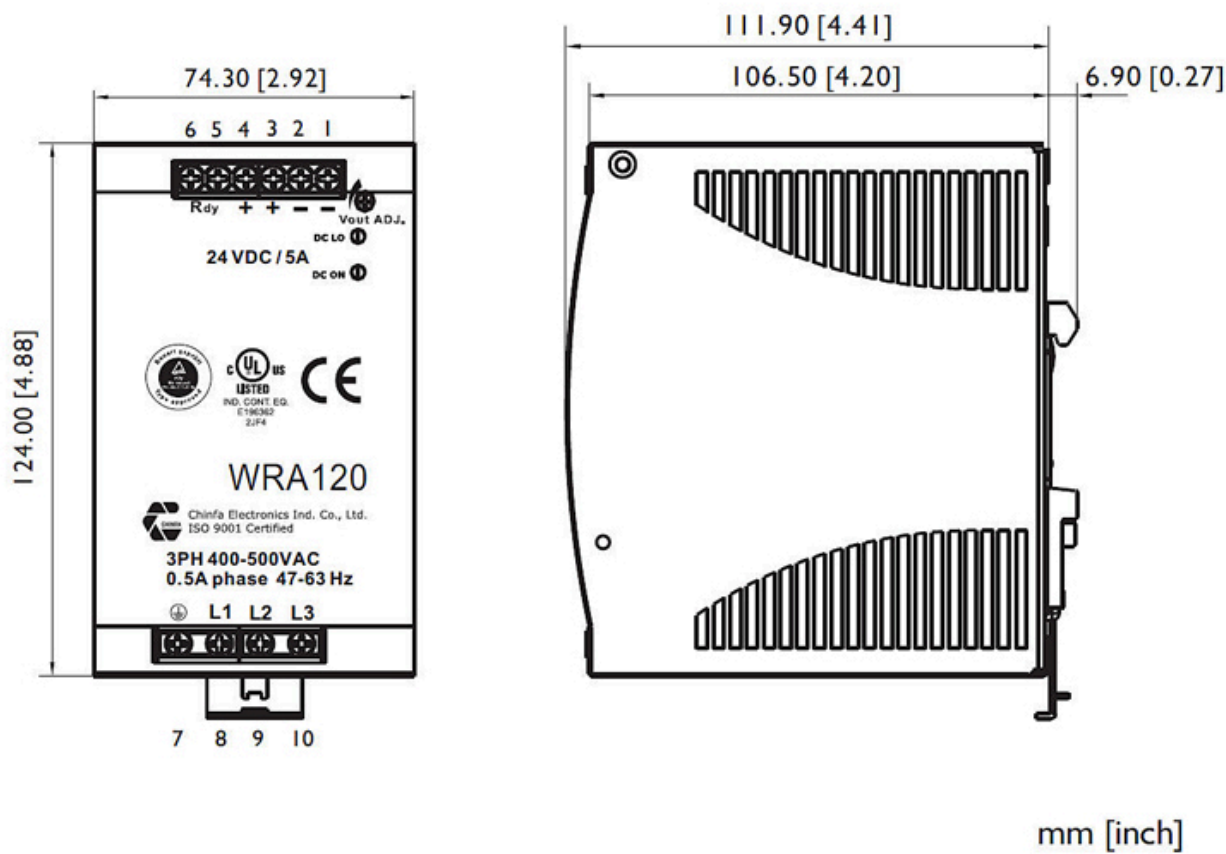
Input voltage range:	3 x 400 VAC to 500 VAC
Nominal input voltage:	1 x or 3 x 380/480 VAC with single-phase connection, the output load is reduced to 75%
Maximum input voltage range	340 VAC to 575 VAC or 480 VDC to 820 VDC
Inrush current:	(340 VAC): typ. 10 A; max. 12 A
Input current:	(400 / 500 VAC): 0.36 A / 0.3 A
Internal fuse:	2 A / 600 VAC per phase
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): 5 A (permanent) at 28.5 VDC < 25 °C (In): 4.2 A
Hold-up time:	at least 20 milliseconds
Ripple:	≤ 100 mVpp
efficiency:	89 %
Maximum power loss:	16 watts at 25 °C (400 VAC)
Overload protection:	115 to 135 %
Short-circuit protection:	HICCUP mode
Power-ready connection	Switching threshold for closed contact (when switching on): 17.6 VDC to 19.4 VDC
Overvoltage protection:	Shut-down 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 572,000 hours
Protection class:	IP20
Housing:	Sturdy metal housing. Mounting on the DIN rail.
Dimensions (WxHxD):	74.3 mm x 124 mm x 111.9 mm
Connection:	Input screw terminals: AWG24-10 with 0.2 to 4 mm ² cross-section Output screw terminals: AWG24-10 with 0.2 to 4 mm ² 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. 800 g
Scope of delivery:	Device, operating instructions.
Manufacturer:	Chinfa Electronics Ind. Co, Ltd.

Products Order no.

WRA120-24	Power supply unit for DIN rail, 3 x 400 to 500 VAC, 24 VDC, 5 A
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Drawings
Dimensions





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