

DIN rail power supply unit WRA960-24



- Three-phase input: 3 x 340 VAC to 575 VAC
- Output: 24 VDC up to 61 °C
- Output power of 980 watts (40 A)
- Overtemperature and short-circuit protection
- Robust metal housing with top-hat rail mounting

<https://www.wachendorff-prozesstechnik.de/WRA960-24>

Description

The WRA960-24 power supply unit is a high-quality switched-mode power supply unit for DIN rail mounting. It impresses with its compact and intelligent 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.

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

Product details

Input voltage range:	3 x 340 VAC to 575 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. 30 A; max. 35 A
Input current:	(400 / 500 VAC): 1.72 A / 1.5 A
Internal fuse:	T5 A / 500 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): 40 A (permanent) at 28.5 VDC < 25 °C (In): 33.5 A
Hold-up time:	at least 15 milliseconds
Ripple:	≤ 80 mVpp
efficiency:	≥ 92 %

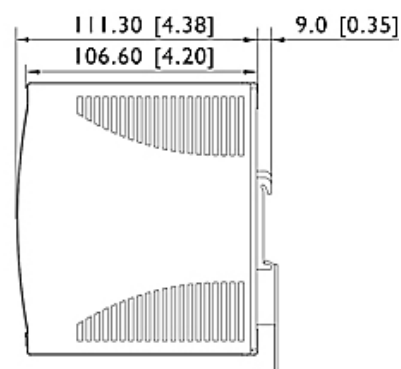
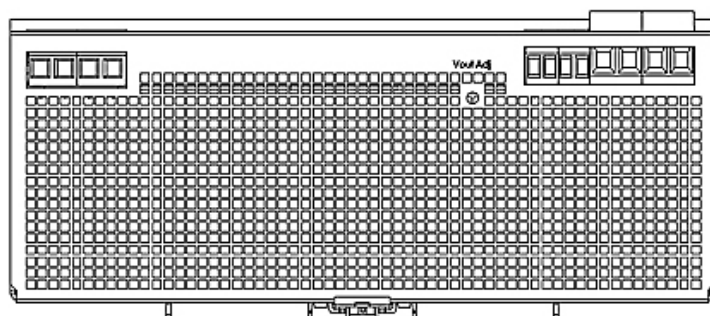
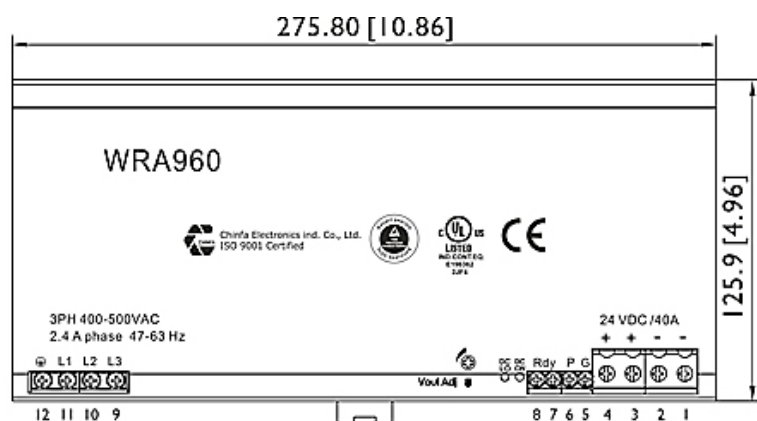
Maximum power loss:	98 watts at 25 °C (400 VAC)
Overload protection:	110 to 135 %
Short-circuit protection:	HICCUP mode
Power-ready connection	Switching threshold for closed contact (when switching on): 17.6 VDC to 19.4 VDC
Overvoltage protection:	Shut-down with 30 to 33 VDC
Standards and approvals:	UL 508 Listed / UL 60950-1 Recognized, ISA 12.12.01 UL 1310 Class 2 Power TÜV EN 60950-1, EN61558-1, EN 61558-2-16 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, -3, -4, -5, -6, -8, -11 EN 61204-3, ENV 50204
Reliability:	MTBF 355,000 hours
Protection class:	IP20
Housing:	Sturdy metal housing. Mounting on the top-hat rail.
Dimensions (WxHxD):	275.8 mm x 125.9 mm x 111.3 mm
Connection:	Input screw terminals: AWG24-10 with 0.2 to 4 mm ² cross-section Output screw terminals: AWG20-6 with 0.5 to 10 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. 3400 g
Scope of delivery:	Device, operating instructions.
Manufacturer:	Chinfa Electronics Ind. Co, Ltd.

Products Order no.

WRA960-24	Power supply unit for top-hat rail, 3 x 340 to 575 VAC, 24 VDC 40 A
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Drawings

Dimensions



Abmessungen in mm [Inch]



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