

DIN rail power supply unit PS24V03AA



- Single-phase input: 115 VAC to 230 VAC
- Output: 24 VDC up to 50 °C operating temperature
- Flexible output power from 36 watts to 72 watts
- Robust metal housing for DIN rail mounting
- High overload without shutdown

<https://www.wachendorff-prozesstechnik.de/en/PS24V03AA>

Description

The PS24V03AA power supply units are high-quality switched-mode power supply units for top-hat 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 VDC to 27 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. The output power can be easily increased by connecting additional PS24V03AA power supply units in parallel.

Product details

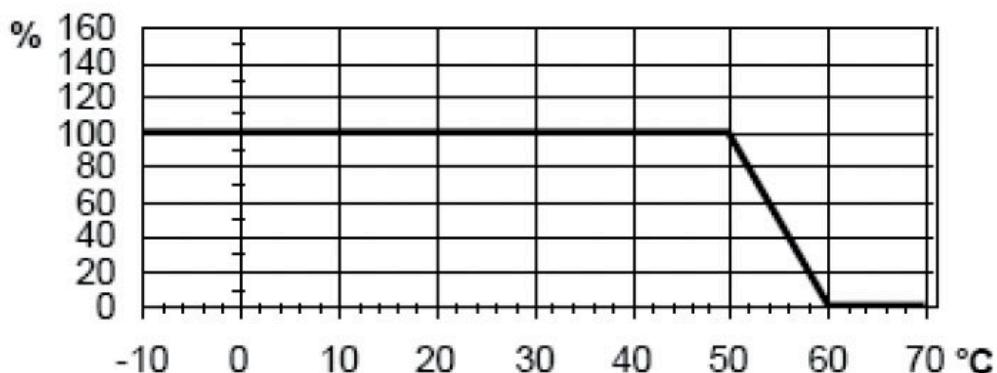
Entrance:	Nominal input voltage: 115 VAC to 230 VAC Input voltage range: 90 VAC to 264 VAC Frequency range: 47 Hz to 63 Hz Inrush current (Vn and In load) I_{rt} : 19 A 5 msec. Input current (115 VAC to 230 VAC): 1.0 A to 0.7 A Internal fuse: T 4 A External fuse (recommended): 6 A (B characteristic)	Output voltage (Vn) Factory setting +/- 3 %: 24 VDC Adjustment range output voltage (Vadj): 22 VDC to 27 VDC Start with large load (capacitive load): 50,000 μ F Switch-on delay after applying the supply: 1.5 sec (max.) Continuous current at 24 VDC < 40 °C (In): 2 A (115 VAC); 3 A (230 VAC) Continuous current at 24 VDC < 50 °C (In): 1.5 A (115 VAC); 2.5 A (230 VAC) Power boost current at 24 VDC / 50 °C (In): 3.5 A 3 min. Max. Current at overload approx. 4 VDC (perm.): $I_{\text{max}} = I_{\text{n}} 50 \text{ }^{\circ}\text{C} \times (1.8 \text{ to } 2.2)$ Max. Max. current for short circuit (Icc): 7 A Hold-up time (min. VAC) Vn In 40 °C: typically 20 milliseconds Remaining residual ripple: 80 mVpp Efficiency: 85 % Overtemperature protection: Yes, output switches off and module restarts automatically Short-circuit protection: Yes, continuous operation Maximum power dissipation: 13 watts at 40 °C Overload protection: Yes, continuous operation Overvoltage protection at the output: Yes (typically 35 VDC) Parallel operation possible: Yes
Isolation:	Input/output insulation voltage: 3,000 VAC Insulation voltage input/PE: 1,605 VAC Insulation voltage output/PE: 500 VAC	
Standards and approvals:	CE according to EMC 2004/108/EC and Low Voltage Directive 2006/95/EC, UL approval according to UL508, RoHs-compliant	
Reliability:	MTBF according to IEC 61709 > 500,000 hours	
Protection class:	IP20	
Housing:	Sturdy metal housing. Mounting on the top-hat rail. Dimensions (WxDxH): 50 mm x 120 mm x 50 mm.	

Connection:	Fixed terminal strips with 2.5 mm ² cross-section.
Relative humidity:	max. 95 % rH at 25 °C, non-condensing.
Ambient temperature:	Operation: -25 °C to +70 °C (> 50 °C leads to a reduction of the operating values by 2.5 % / °C). Storage: -40 °C to +85 °C.
Weight:	approx. 300 g
Scope of delivery:	Device, operating instructions.
Manufacturer:	ADEL System s.r.l., Italy

Products Order no.

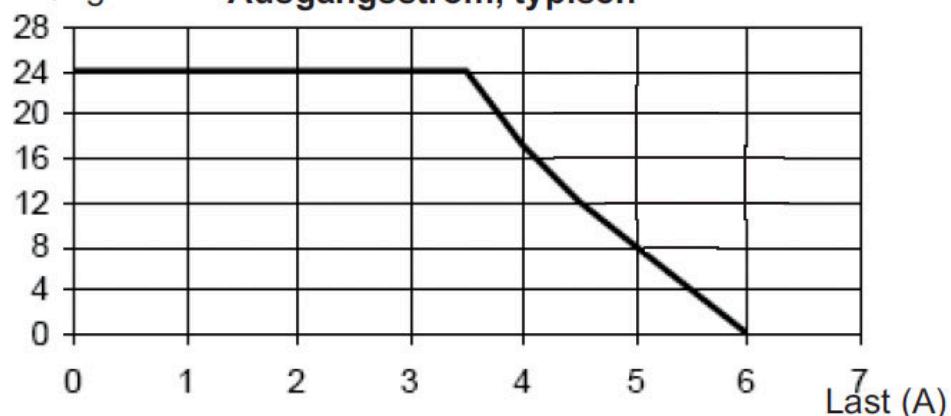
PS24V03AA	Power supply unit for top-hat rail, 230 VAC, 24 VDC 3 A
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Herabsetzung des Ausgangs bei Dauerlast



Ausgangs-
spannung

Ausgangsspannung versus Ausgangsstrom, typisch





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