

Power supply unit and battery charger NAL24V05A



- Single-phase input: 115 VAC to 230 VAC
- Load output: 24 VDC at 5 A
- Charging output: 24 VDC at 5 A
- Automatic diagnosis of the battery status
- Robust metal housing with top-hat rail mounting
- Relay outputs for monitoring

<https://www.wachendorff-prozesstechnik.de/en/NAL24V05A>

Description

The NAL24V intelligent modules are power supply units and battery chargers in one. In conjunction with an appropriate battery pack, the NAL24V is ideal for use as a UPS in the control cabinet. They are controlled by a microprocessor and optimize the charging and discharging of the battery while ensuring a long service life. Continuous monitoring of the battery efficiency reduces the risk of damage to the battery and ensures safe operation even with continuous charging. The NAL24V is suitable for different battery types and can be used for two different charging modes.

Product details

Entrance:	Nominal input voltage: 115 VAC/ 230 VAC/ 277 VAC Input voltage range: 90 VAC to 305 VAC Frequency range: 47 Hz to 63 Hz Inrush current (Vn and In load) I _t : 36 A 5 msec. Input current (115 to 230 VAC): 2.8 A to 1.3 A Internal non-replaceable fuse available: T4A External fuse (recommended): 10 A (B characteristic) Internal non-replaceable fuse: present (4 A)
Output:	Output voltage (Vn) , nominal current (In): 24 VDC / 5 A Minimum load required: no Efficiency at 50% of the permitted current: 82% Short circuit protection: Yes Overload protection: Yes Overvoltage protection: Yes (typ. 35 VDC)

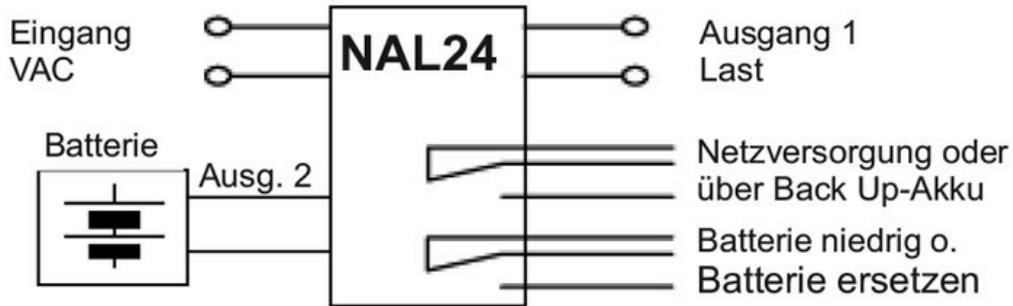
Battery output:	Surge charge (25° C) (with In): 28.8 VDC Trickle charge (25° C) (at In): 27.5 VDC Output 2: Battery charging current max. Ibatt 5 A ±5 % Charging current adjustment range: 20 % to 100 % of In Recovery charging: Yes Charging configuration adjustable via jumper: Yes Protection against reverse polarity battery: Yes Sulphated battery check: Yes Short circuit detection of an element: Yes
Load output:	Output voltage (for In): 22 VDC to 28.8 VDC Max. Nominal current In = Iload + Ibatt: 1.1 x 5 A ±5 % Output 1 load current (main) Iload: 15 A max. Output 1 load current (back up) Iload: 10 A max.
Relay output:	Mains or backup battery supply: Yes Low battery voltage: Yes Faulty battery: 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 89/336/EEC and Low Voltage Directive 2006/95/EC, UL approval according to EN60950/ UI1950, RoHS-compliant
Connectable battery types:	Lead-acid battery (open or maintenance-free), lead-gel battery and Ni-Cd batteries (optional), more details can be found in the operating instructions.
Protection class:	IP20
Housing:	Sturdy metal housing. Mounting on the top-hat rail.
Dimensions (WxHxD):	65 mm x 115 mm x 135 mm.
Weight:	0.60 kg
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 Storage: -40° C to +85° C.
Scope of delivery:	Device, operating instructions.
Manufacturer:	ADEL System s.r.l., Italy

Products Order no.	
NAL24V05A	Power supply unit/charger, 230 VAC, 24 VDC 5 A

Drawings

Dimensions:



Ausgangs- und Eingangsbeschaltung



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