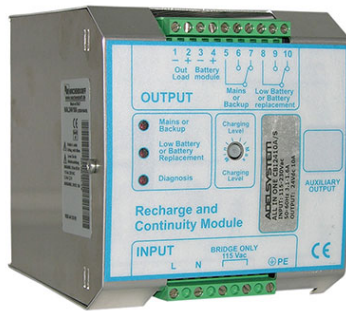


Power supply unit and battery charger NAL24V10A



- Single-phase input: 115 VAC to 230 VAC
- Load output: 24 VDC at 10 A
- Charging output: 24 VDC at 10 A
- Automatic diagnosis of the battery status
- Robust metal housing with top-hat rail mounting
- Relay outputs for monitoring

<https://www.wachendorff-prozesstechnik.de/NAL24V10A>

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 to 277 VAC Input voltage range: 90 to 135 VAC (115 VAC); 180 to 305 VAC (230 VAC) Frequency range: 47 Hz to 63 Hz Inrush current (V and I load) I _p 42 A 5 msec. Input current (115 to 230 VAC): 3.3 A to 2.2 A Internal non-replaceable fuse: 6.3 A available External fuse (recommended): 16 A (B characteristic)
Output:	Output voltage (V) , nominal current (I): 24 VDC/ 10 A Start with large load(capacitive load) : Yes, unlimited Switch-on delay after applying the supply: 1.5 sec (max.) Maximum power loss: 28W Efficiency at 50% of the permitted current: 83% Short-circuit protection: Yes Overload protection: Yes Overvoltage protection: Yes Overvoltage protection at the output: Yes (typically 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. I _{batt} 10 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 = I _{load} + I _{batt} : 1.1 x 10 A ±5 % Output 1 load current (main) I _{load} : 20 A max. Output 1 load current (back up) I _{load} : 15 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:	IEC/EN 60335-2-29 Chargers, EN60950/ UL1950 Electrical safety, EN54-4 Fire detection and fire alarm systems safety, EN54-4 fire detection and fire alarm systems, CE according to EMC 89/336/EEC, and Low Voltage Directive 2006/95/EC, UL approval, RoHs compliant
Connectable battery types:	Lead-acid battery (open or maintenance-free), lead-gel battery and Ni-Cd batteries (optional), for more details please refer to the the operating instructions.
Protection class:	IP20
Housing:	Sturdy metal housing. Mounting on top-hat rail.

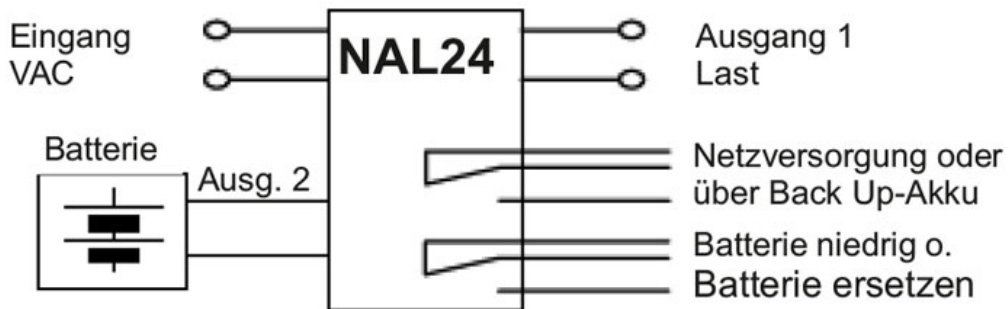
Dimensions (WxHxD):	100 mm x 115 mm x 135 mm.
Weight:	approx. 850 g
Connection:	Fixed terminal strips with 2.5 mm ² cross-section.
Relative humidity:	max. 95 % rH at 25° C, non-condensing.
Ambient temperature:	Operation: -25 °C to +70 °C, (> 50 °C leads to a reduction of the operating values by 2.5 % (I) / °C). Storage: -40 °C to +85 °C.
Scope of delivery:	Device, operating instructions.
Manufacturer:	ADEL System s.r.l., Italy

Products Order no.	
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NAL24V10A	Power supply unit/charger, 230 VAC, 24 VDC 10 A
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Drawings

Dimensions:



Ausgangs- und Eingangsbeschaltung



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

