

ADA SERIES

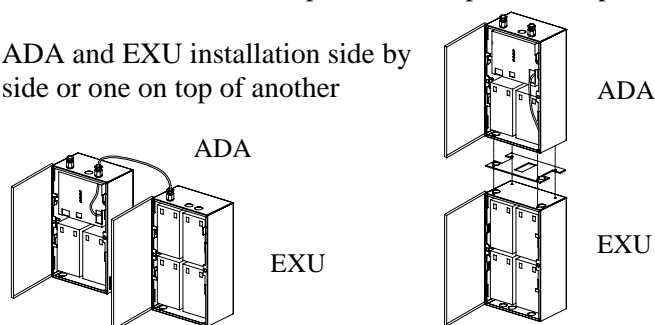
Battery back-up power supplies 12/24/48VDC



- 12/24/48VDC • Compact size • Easy to install • Safe construction • EMC EN55022B
- Temperature compensation • Deep discharge protection • Power fail signal
- Mains connection with plug or screw terminal • 15A output MCB • Optional tamper switch

More battery capacity available with EXU extra battery unit

ADA and EXU installation side by side or one on top of another



| POWER SUPPLIES WITH BATTERY BACK-UP | | | | | | |
|-------------------------------------|--|----------------------------------|------------------------|----------------|------------------|--|
| Type | Available <u>x</u> selection codes (others on request) | Input Voltage | Nominal Output Voltage | Output Current | Battery Capacity | Installation / dimensions (Width x Height x Depth) |
| ADA473 <u>x</u> | <u>x</u> = 0 | 230 VAC | 12 VDC | 10 A | 14 Ah | Wall / 188 x 317 x 110mm |
| ADA474 <u>x</u> | <u>x</u> = 0, 2, 3 | 230 VAC | 24 VDC | 5 A | 7 Ah | Wall / 188 x 317 x 110mm |
| ADA498 <u>x</u> | <u>x</u> = 0, 2, 3 | 230 VAC | 24 VDC | 10 A | 7 Ah | Wall / 188 x 317 x 110mm |
| ADA457 <u>x</u> | On request | 230 VAC | 48 VDC | 2.5 A | 2 Ah | Wall / 188 x 317 x 110mm |
| ADA499 <u>x</u> | On request | 230 VAC | 48 VDC | 5 A | 2 Ah | Wall / 188 x 317 x 110mm |
| EXU708 <u>x</u> | On request | External battery unit 12VDC 28Ah | | | | Wall / 188 x 317 x 110mm |
| EXU709 <u>x</u> | On request | External battery unit 24VDC 14Ah | | | | Wall / 188 x 317 x 110mm |
| EXU710 <u>x</u> | On request | External battery unit 48VDC 7Ah | | | | Wall / 188 x 317 x 110mm |

x selection code: 0 = with batteries / without tamper switch 1 = without batteries / without tamper switch
 2 = with batteries / with tamper switch 3 = without batteries / with tamper switch



POWERNET



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INPUT

| | |
|---|---|
| Input voltage range | 184...264 VAC |
| Frequency | 45...65Hz |
| Efficiency ($U_{in} = 230$ VAC, 100% load) | ADA473x / 85%, ADA474x / 87%, ADA498x / 88% ADA457x / 87%, ADA499x / 89% |
| Safety | EN 60950 Class 1 |
| Isolation: | input / ground input / output output / ground |
| EMC | EN 55022 class B |
| Inrush-current | Limited by 7R NTC-resistor |
| Overvoltages | Protected by 275V 72J VDR-resistor |
| Input fuse | T4A |
| Approvals | CE-marking |

OUTPUT

| | 12 V | 24 V | 48V |
|--|----------------------|----------------------|----------------------|
| Charging voltage (50% load) | 13.7 V | 27.3 V | 54.6 V |
| Output adjustment (user adjustable) | 11...15 V | 23...29 V | 45...58V |
| Minimum voltage (deep discharge protection) | 10V±0.3V | 20V±0.5V | 40V±0.5V |
| Ripple voltage ($f = 20$ Hz...300kHz, $T_{amb} = 25^{\circ}$ C) | <15mV _{rms} | <15mV _{rms} | <15mV _{rms} |
| Load regulation ($I_{out} = 10$...100%) | ± 1.5 % | ± 1 % | ± 0.5 % |
| Line regulation (U_{inmin} ... U_{inmax}) | ± 0.1 % | ± 0.1 % | ± 0.1 % |
| Output current, charger | 10 A | 5 A, 10 A 2.5 A, 5 A | |
| Current limit, charger | < 11 A | < 6 A, < 11A | < 3 A, < 6 A |
| Short circuit current limiting, charger + battery | circuit breaker 15A | | |

BATTERY BACK-UP

| | 12 V | 24 V | 48V |
|--------------------------------------|------------------------|------------------------|-----------------------------|
| Battery capacity | 14Ah | 7Ah | 2Ah |
| Battery type Genesis / Yuasa | NP 7-12 7Ah 12V | NP 7-12 7Ah 12V | NP 2-12 2Ah 12V |
| Battery back-up time (appr. values) | 10A / 45min 2A / 5h | 5A / 45min 1A / 5 h | 2A / 25 min 0.5A / 2.5 h |
| Temperature compensation for battery | 2k2 NTC-resistor | | |
| Deep discharge protector for battery | release at 10V | release at 20V | release at 40V |

INDICATIONS AND ALARMS

| | |
|--------------------------------------|---|
| Charger output OK | Green LED is on |
| Power Fail (mains or module failure) | Potential free open and closing relay contacts; Relay 24VDC/0.3A or 30VAC/0.5A |
| Door open tamper switch (option) | Mircroswitch, open and closing contact |

MECHANICS

| | |
|----------------------|---|
| Dimensions | See table on first page |
| Mounting | Wall / screw mounting |
| Weight | Without batteries < 3kg With batteries 12V/8kg, 24V/8kg, 48V/5kg |
| Locking of the cover | By tool (screwdriver) |
| Enclosure | Steel case IP21 |

ENVIRONMENTAL

| | |
|-----------------------|--|
| Operation temperature | -40°C...+55 °C without batteries -20°C...+45 °C with standard batteries |
| Humidity | 85% RH IEC68-2-30 |
| Ventilation | Natural convection |

CONNECTORS

| | |
|--------|---|
| Input | 2.5mm ² 3-pole screw terminal (L-N-PE) Inlet through the cover, 1.5m power cord included |
| Output | 2.5 mm ² 9-pole screw terminal (++, --, Alarm, Battery) 2.5 mm ² 2-pole screw terminal (Door alarm) Inlet through the cover |