

ADA SERIES

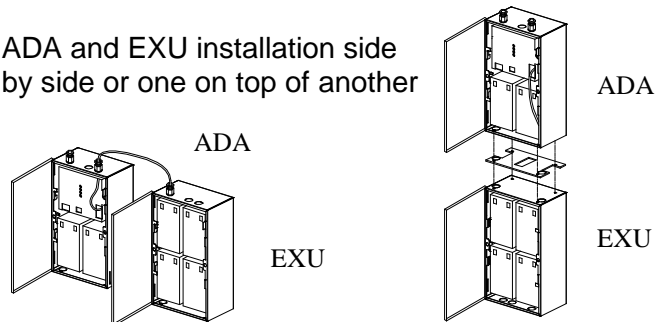
Battery back-up power supplies 12/24/48VDC



- 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

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	1500 VAC RMS 50Hz, 1min	
	input / output	3000 VAC RMS 50Hz, 1min	
	output / ground	500 VDC	
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)	Microswitch, 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