

# ADA SERIES

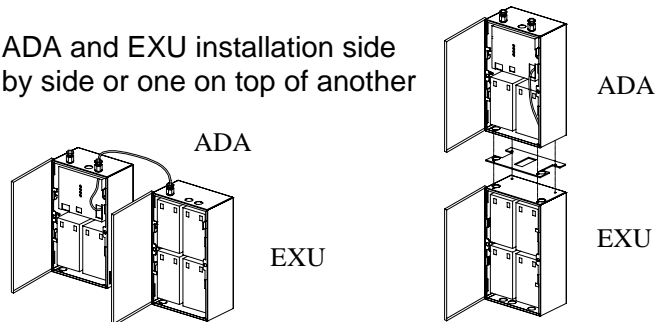
*Battery back-up power supplies 12/24/48VDC*



- 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 <sub>rms</sub>	<15mV <sub>rms</sub>	<15mV <sub>rms</sub>
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		
Battery back-up time (appr. values)	NP 7-12 7Ah 12V 10A / 45min 2A / 5h	NP 7-12 7Ah 12V 5A / 45min 1A / 5 h	NP 2-12 2Ah 12V 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 <sup>2</sup> 3-pole screw terminal (L-N-PE) Inlet through the cover, 1.5m power cord included
Output	2.5 mm <sup>2</sup> 9-pole screw terminal (+, -, Alarm, Battery) 2.5 mm <sup>2</sup> 2-pole screw terminal (Door alarm) Inlet through the cover