

ADA 60W SERIES

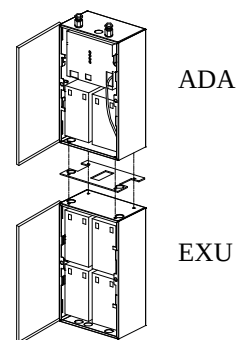
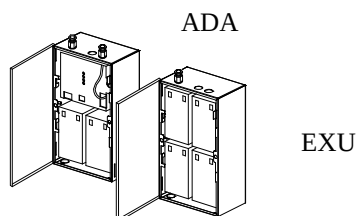
Battery back-up power supplies 12/24/48 VDC



- 12/24/48VDC systems • Compact size • Easy to install • Safe construction
- EMC EN55022B • Mains connection with plug or screw terminal • Tamper Switch
- Temperature compensation • Power fail signal • *Optional: n+1 redundancy*

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 x selection codes (others on request)	Input Voltage	Nominal Output Voltage	Output Current	Battery Capacity	Installation / dimensions (Width x Height x Depth)
*) See x below						
ADA742x	x = 0	90...264 VAC	12 VDC	5 A	14 Ah	Wall / 188 x 317 x 110mm
ADA743x	x = 0, 3	90...264 VAC	24 VDC	2.5 A	7 Ah	Wall / 188 x 317 x 110mm
ADA744x	x = 2	90...264 VAC	48 VDC	1.25 A	2 Ah	Wall / 188 x 317 x 110mm
EXU708x	On request	External battery unit 12VDC 28Ah				Wall / 188 x 317 x 110mm
EXU709x	On request	External battery unit 24VDC 14Ah				Wall / 188 x 317 x 110mm
EXU710x	On request	External battery unit 48VDC 7Ah				Wall / 188 x 317 x 110mm

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

1 = without batteries / without tamper switch
3 = without batteries / with tamper switch

INPUT

Input voltage range	90...264 VAC
Frequency	45...65Hz
Efficiency ($U_{in} = 230$ VAC, 100% load)	82% - 85%
Safety	EN 60950 Class 1
Isolation:	input / ground input / output output / ground
EMC	500 VDC EN 55022 class B
Inrush-current	Limited by 7R NTC-resistor
Overvoltages	Protected by 275V 72J VDR-resistor
Input fuse	T2A
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)	10.5...15 V	21...29 V	45...58V
Ripple voltage ($f = 20$ Hz...300kHz, $T_{amb} = 25^{\circ}\text{C}$)	<10mV _{rms}	<10mV _{rms}	<15mV _{rms}
Load regulation ($I_{out} = 10$...100%)	± 1 %	± 0.5 %	± 0.5 %
Line regulation (U_{inmin} ... U_{inmax})	± 0.1 %	± 0.1 %	± 0.1 %
Output current at charging voltage	≥ 4.4 A	≥ 2.2 A	≥ 1.1 A
Current limit, charger	< 8 A	< 4 A	< 2 A
Short circuit current limiting, battery	Fuse 10A	Fuse 6.3A	Fuse 4A

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 (typical)	4A / 3h 1A / 12h	2A / 3h 0.5A / 12 h	1A / 1.5h 0.25A / 7h
Temperature compensation for battery	NTC-resistor 2k2	NTC-resistor 2k2	NTC-resistor 2k2

INDICATIONS AND ALARMS

Charger output OK	Green LED is on
Power Fail (mains failure, charger failure or charger in current limiting mode)	Potential free open and closing relay contacts; Relay 24VDC/0.3A or 30VAC/0.5A
Door open tamper switch (if ordered)	Microswitch, open and closing contact

MECHANICS

Dimensions	See table on first page
Mounting	Wall / screw mounting
Weight	Without batteries 2kg With batteries 12V/7kg, 24V/7kg, 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 2-pole screw terminal (+, -), Inlet through the cover
Battery	2.5 mm ² 2-pole screw terminal (+, -)
Power fail alarm and battery temp.comp	2.5 mm ² 5-pole screw terminal (Alarm NO, NC, COM, Temp.comp), Inlet through the cover, NTC resistor included in installation kit