

ADA 60W SERIES

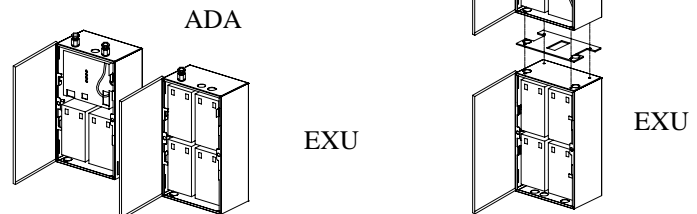
Battery back-up power supplies 12/24/48 VDC



- 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 <u>x</u> selection codes (others on request)	Input Voltage	Nominal Output Voltage	Output Current	Battery Capacity	Installation / dimensions (Width x Height x Depth)
ADA742 <u>x</u>	<u>x</u> = 0	90...264 VAC	12 VDC	5 A	14 Ah	Wall / 188 x 317 x 110mm
ADA743 <u>x</u>	<u>x</u> = 0, 3	90...264 VAC	24 VDC	2.5 A	7 Ah	Wall / 188 x 317 x 110mm
ADA744 <u>x</u>	<u>x</u> = 2	90...264 VAC	48 VDC	1.25 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	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	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, $T_{amb} = 25^{\circ}$ 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 or module failure)	Potential free open and closing relay contacts; Relay 24VDC/0.3A or 30VAC/0.5A
Door open tamper switch (if ordered)	Mircroswitch, 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