

# ADA 60W SERIES

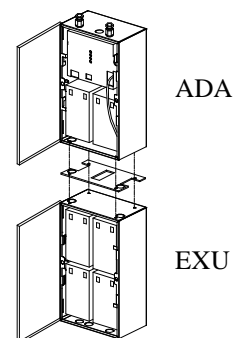
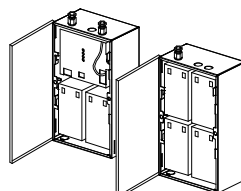
*Battery back-up power supplies 12/24/48 VDC*



- 12/24/48VDC systems • Compact size • Easy to install • Safe construction
- EMC EN55022B • Mains connection with plug or screw terminal • Tamper Switch

*Optional: Temperature compensation, Power fail signal, 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	Input voltage	Nominal Output voltage	Output Current	Battery Capacity	Installation / dimensions (Width x Height x Depth)
*) See <u>x</u> below					
ADA742 <u>x</u>	90...264 VAC	12 VDC	5 A	14 Ah	Wall / 188 x 317 x 110mm
ADA743 <u>x</u>	90...264 VAC	24 VDC	2.5 A	7 Ah	Wall / 188 x 317 x 110mm
ADA744 <u>x</u>	90...264 VAC	48 VDC	1.25 A	2 Ah	Wall / 188 x 317 x 110mm
EXU708 <u>x</u>	External battery unit 12VDC 28Ah				Wall / 188 x 317 x 110mm
EXU709 <u>x</u>	External battery unit 24VDC 14Ah				Wall / 188 x 317 x 110mm
EXU710 <u>x</u>	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



**Sales & R&D:** Horsmakuja 10, FIN-01300 VANTAA, Tel. +358 9 8362 830, Fax +358 9 8362 8362  
**Production and Service:** Rautatiekatu 52, FIN-44150 ÄÄNEKOSKI, Tel. +358 14 3396 400, Fax +358 14 3396 410  
 E-mail: marketing@powernet.fi, Internet: www.powernet.fi

**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	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	T2A		
Approvals	CE-marking		

**OUTPUT**

	<b>12 V</b>	<b>24 V</b>	<b>48V</b>
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 <sub>rms</sub>	<10mV <sub>rms</sub>	<15mV <sub>rms</sub>
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**

	<b>12 V</b>	<b>24 V</b>	<b>48V</b>
Battery capacity	14Ah	7Ah	2Ah
Battery type / Yuasa	NP 7-12 7Ah 12V	NP 7-12 7Ah 12V	NP 2-12 2Ah 12V
Battery back-up time (typical)	4A / 3h	2A / 3h	1A / 1.5h
	1A / 12h	0.5A / 12 h	0.25A / 7h
Option: Temperature compensation for battery	2k2 NTC-resistor		

**INDICATIONS AND ALARMS**

Charger output OK	Green LED is on
Option: 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 <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> 2-pole screw terminal (+, -), Inlet through the cover
Battery	2.5 mm <sup>2</sup> 2-pole screw terminal (+, -)
Optional mating connector set for Power fail alarm and battery temp.comp	2.5 mm <sup>2</sup> 5-pole screw terminal (Alarm NO, NC, COM, Temp.comp), Inlet through the cover