



# Buffer power supply units and accessories



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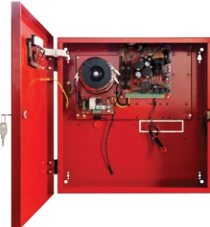


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# Buffer power supply units 13.8VDC / 27.6VDC / 48VDC / 54VDC switch mode HPSB series

**GREEN POWER**

## Features

- power supply: 176÷264VAC
  - impulse voltage stabilizer
  - deep discharge battery protection (UVP)
  - protections:
    - SCP short circuit protection,
    - OLP overload protection,
    - OVP overvoltage protection \*,
    - surge protection,
    - antisabotage protection,
    - OHP overheat protection \*
  - warranty: 2 years from production date
- \* depending on model



Sample product  
**HPSB10A24D**

| Code       | Output voltage | Total current | Battery charging current | Fitting battery | Dimensions W × H × D [mm] |
|------------|----------------|---------------|--------------------------|-----------------|---------------------------|
| HPSB1512B  | 13.8VDC        | 1.5A          | 0.5A                     | 7Ah             | 200 × 230 × 80            |
| HPSB2512B  |                | 2.5A          | 0.5A                     | 7Ah             | 250 × 250 × 80            |
| HPSB2512C  |                | 2.5A          | 0.5A                     | 17Ah            | 280 × 292 × 80            |
| HPSB3512B  |                | 3.5A          | 0.5A                     | 7Ah             | 250 × 250 × 80            |
| HPSB3512C  |                | 3.5A          | 0.5A                     | 17Ah            | 280 × 292 × 80            |
| HPSB5512C  |                | 5.5A          | 0.5A                     | 17Ah            | 280 × 292 × 80            |
| HPSB7012C  |                | 7A            | 1A / 2A                  | 17Ah            | 280 × 292 × 80            |
| HPSB7012D  |                | 7A            | 1A / 2A                  | 40Ah            | 320 × 350 × 170           |
| HPSB7012E  |                | 7A            | 1A / 2A                  | 65Ah            | 400 × 350 × 170           |
| HPSB11A12C |                | 11A           | 1A / 4A                  | 17Ah            | 280 × 292 × 80            |
| HPSB11A12D |                | 11A           | 1A / 4A                  | 40Ah            | 320 × 350 × 170           |
| HPSB11A12E |                | 11A           | 1A / 4A                  | 65Ah            | 400 × 350 × 170           |
| HPSB20A12C |                | 20A           | 2A / 4A / 8A             | 17Ah            | 400 × 350 × 90            |
| HPSB20A12E |                | 20A           | 2A / 4A / 8A             | 65Ah            | 400 × 350 × 170           |
| HPSB1824B  | 27.6VDC        | 1.8A          | 0.3A                     | 2 × 7Ah         | 280 × 292 × 80            |
| HPSB3524B  |                | 3.5A          | 0.5A / 1A                | 2 × 7Ah         | 280 × 292 × 80            |
| HPSB3524C  |                | 3.5A          | 0.5A / 1A                | 2 × 17Ah        | 400 × 350 × 90            |
| HPSB5524C  |                | 5.5A          | 0.5A / 2A                | 2 × 17Ah        | 400 × 350 × 90            |
| HPSB10A24C |                | 10A           | 1A / 2A / 4A             | 2 × 17Ah        | 400 × 350 × 90            |
| HPSB10A24D |                | 10A           | 1A / 2A / 4A             | 2 × 40Ah        | 420 × 373 × 181           |
| HPSB1248C  | 48VDC          | 1.2A          | 0.5A                     | 17Ah            | 280 × 292 × 80            |
| HPSB2548C  |                | 2.5A          | 0.5A                     | 2 × 17Ah        | 400 × 350 × 90            |
| HPSB1348B  | 54VDC          | 1.3A          | 0.3A                     | 4 × 7Ah         | 400 × 350 × 90            |
| HPSB2548B  |                | 2.5A          | 0.5A / 1A                | 4 × 7Ah         | 400 × 350 × 90            |
| HPSB5048C  |                | 5A            | 0.5A / 1A / 2A           | 4 × 17Ah        | 420 × 375 × 182           |

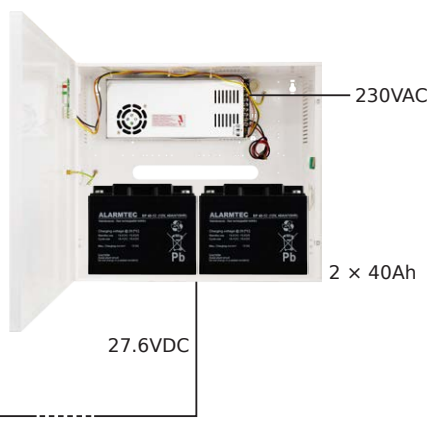
## Accessories

- MPSB12 – Operating automation module PSB 13.8V
- MPSB24 – Operating automation module PSB 27.6V
- MPSB48 – Operating automation module PSB 54V



**MPSB12**

Sample product: HPSB10A24D



**Receiver**

Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

# Multi-output buffer power supply units 13.8VDC PSDCB series

## Features

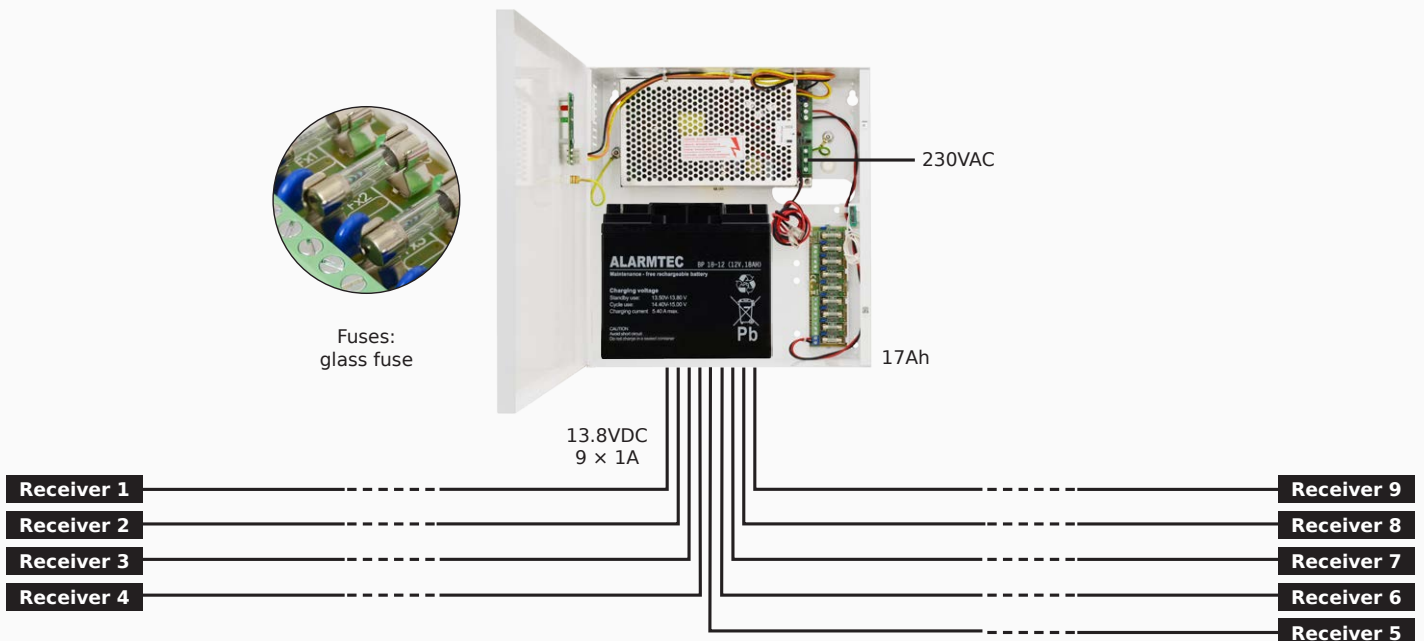
- power supply: 176÷264VAC
  - available models: 13.8VDC / 5 × 1A  
13.8VDC / 9 × 1A  
13.8VDC / 16 × 1.1A
  - battery charging current: 1A / 2A / 4A / 8A \*
  - number of outputs × fuse: 5 × 1A / 9 × 1A / 16 × 1A
  - fuse type: glass fuse
  - fitting battery: 17Ah / 65Ah
  - deep discharge battery protection (UVP)
  - protections:
    - SCP short circuit protection,
    - OLP overload protection,
    - OVP overvoltage protection,
    - surge protection,
    - OHP overheat protection,
    - antisabotage protection
  - notes:
    - surface mounted enclosure, locking – bolted (lock assembly possible)
  - warranty: 2 years from production date
- \* depending on model



Sample product  
**PSDCB09129C**

| Code                | Output voltage | Total current | Number of outputs | Battery charging current | Fitting battery | Fuse type       | Dimensions W × H × D [mm] |
|---------------------|----------------|---------------|-------------------|--------------------------|-----------------|-----------------|---------------------------|
| <b>PSDCB05125C</b>  | 13.8VDC        | 7A            | 5 × 1A            | 1A / 2A                  | 17Ah            | 1A – glass fuse | 285 × 297 × 80            |
| <b>PSDCB09129C</b>  |                | 11A           | 9 × 1A            | 1A / 4A                  | 17Ah            | 1A – glass fuse | 285 × 297 × 80            |
| <b>PSDCB161220E</b> |                | 20A           | 16 × 1.1A         | 2A / 4A / 8A             | 65Ah            | 1A – glass fuse | 400 × 350 × 170           |

Sample product: PSDCB09129C



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

# Buffer power supply units 13.8VDC / 27.6VDC / 54VDC switch mode, with technical outputs HPSBOC series

**GREEN POWER plus**

## Features

- power supply: 176÷264VAC
- impulse voltage stabilizer
- technical outputs OC and relay type:
  - EPS – 230V power failure AC,
  - PSU – power supply failure,
  - LoB – low battery voltage
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OVP overvoltage protection \*,
  - surge protection,
  - antisabotage protection,
  - OHP overheat protection \*
- warranty: 2 years from production date

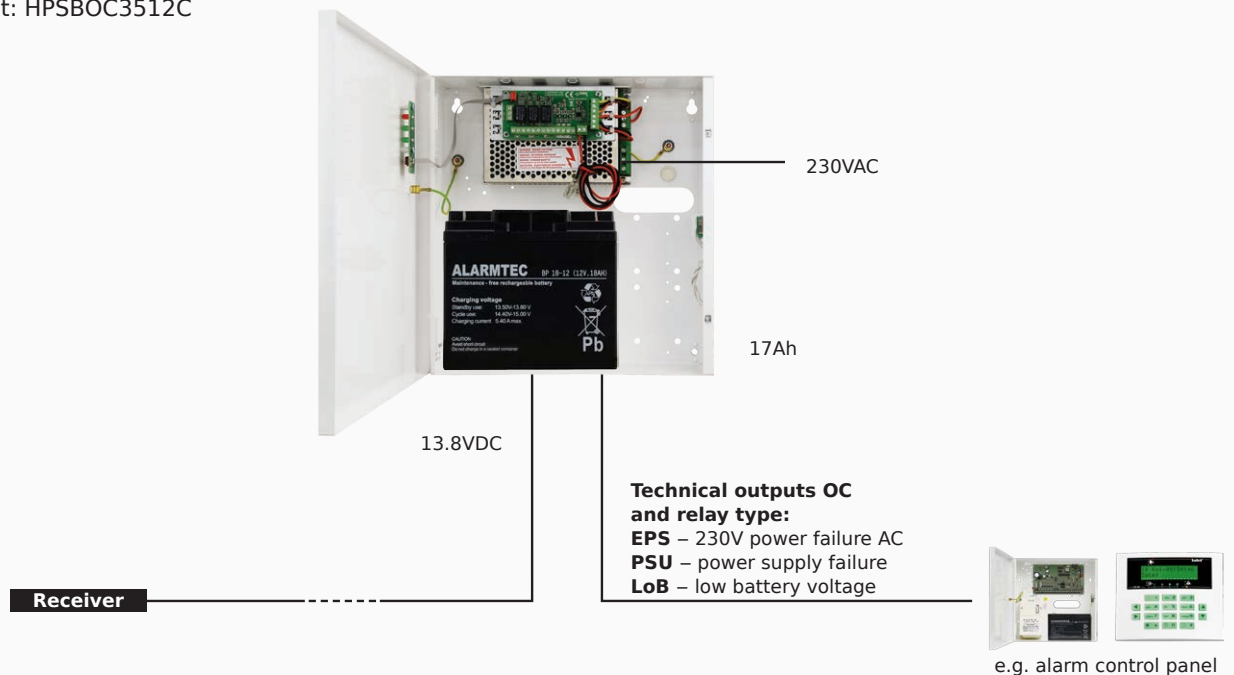
\* depending on model



Sample product  
**HPSBOC3512C**

| Code         | Output voltage | Total current | Battery charging current | Fitting battery | Dimensions W x H x D [mm] |
|--------------|----------------|---------------|--------------------------|-----------------|---------------------------|
| HPSBOC2512B  | 13.8VDC        | 2.5A          | 0.5A                     | 7Ah             | 255 x 255 x 80            |
| HPSBOC3512C  |                | 3.5A          | 0.5A                     | 17Ah            | 285 x 297 x 80            |
| HPSBOC7012C  |                | 7A            | 1A / 2A                  | 17Ah            | 285 x 297 x 80            |
| HPSBOC11A12C |                | 11A           | 1A / 4A                  | 17Ah            | 285 x 297 x 80            |
| HPSBOC20A12E |                | 20A           | 2A / 4A / 8A             | 65Ah            | 400 x 350 x 170           |
| HPSBOC3524C  | 27.6VDC        | 3.5A          | 0.5A / 1A                | 2 x 17Ah        | 405 x 355 x 90            |
| HPSBOC5524C  |                | 5.5A          | 0.5A / 2A                | 2 x 17Ah        | 405 x 355 x 90            |
| HPSBOC10A24C |                | 10A           | 1A / 2A / 4A             | 2 x 17Ah        | 400 x 350 x 90            |
| HPSBOC2548B  | 54VDC          | 2.5A          | 0.5A / 1A                | 4 x 7Ah         | 400 x 350 x 90            |
| HPSBOC5048C  |                | 5A            | 0.5A / 1A / 2A           | 4 x 17Ah        | 420 x 375 x 182           |

Sample product: HPSBOC3512C



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

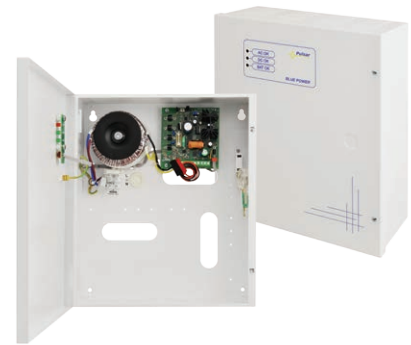
# Buffer power supply units 13.8VDC / 27.6VDC switch mode, with technical outputs PSBS series

**BLUE POWER**

## Features

- power supply: 230VAC
- impulse voltage stabilizer
- technical outputs OC type:
  - EPS – 230V power failure AC,
  - PSU – power supply failure,
  - LoB – low battery voltage
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OHP overheat protection,
  - surge protection,
  - antisabotage protection,
  - OVP overvoltage protection \*
- warranty: 5 years from production date

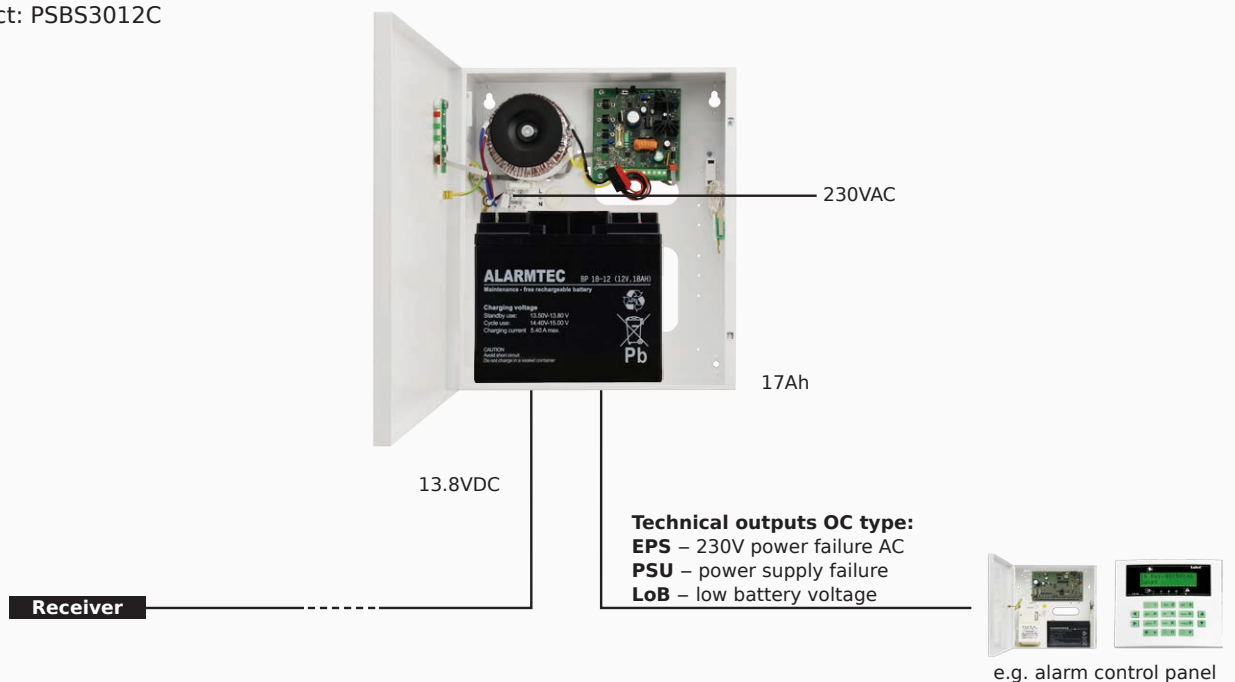
\* depending on model



Sample product  
**PSBS3012C**

| Code       | Output voltage | Total current | Battery charging current | Fitting battery | Dimensions W x H x D [mm] |
|------------|----------------|---------------|--------------------------|-----------------|---------------------------|
| PSBS1012B  | 13.8VDC        | 1.2A          | 0.2A / 0.5A              | 7Ah             | 230 x 230 x 80            |
| PSBS2012B  |                | 2.2A          | 0.2A / 0.5A              | 7Ah             | 230 x 230 x 80            |
| PSBS3012C  |                | 3.5A          | 0.5A / 1A                | 17Ah            | 260 x 300 x 90            |
| PSBS5012C  |                | 5.5A          | 0.5A / 1A / 2A / 3A      | 17Ah            | 330 x 350 x 100           |
| PSBS5012D  |                | 5.5A          | 0.5A / 1A / 2A / 3A      | 40Ah            | 330 x 350 x 170           |
| PSBS5012E  |                | 5.5A          | 0.5A / 1A / 2A / 3A      | 65Ah            | 400 x 370 x 170           |
| PSBS10A12C |                | 11A           | 1A / 2A / 3A / 5A        | 17Ah            | 330 x 350 x 100           |
| PSBS10A12D |                | 11A           | 1A / 2A / 3A / 5A        | 40Ah            | 330 x 350 x 170           |
| PSBS10A12E |                | 11A           | 1A / 2A / 3A / 5A        | 65Ah            | 400 x 370 x 170           |
| PSBS2024B  | 27.6VDC        | 2.2A          | 0.2A / 0.5A              | 2 x 7Ah         | 260 x 300 x 90            |
| PSBS3024C  |                | 3.5A          | 0.5A / 1A                | 2 x 17Ah        | 400 x 350 x 90            |
| PSBS5024C  |                | 5.5A          | 0.5A / 1A / 2A / 3A      | 2 x 17Ah        | 400 x 350 x 90            |

Sample product: PSBS3012C



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

**Buffer power supply units 13.8VDC  
linear  
AWZ series**

**GREY POWER**

**Features**

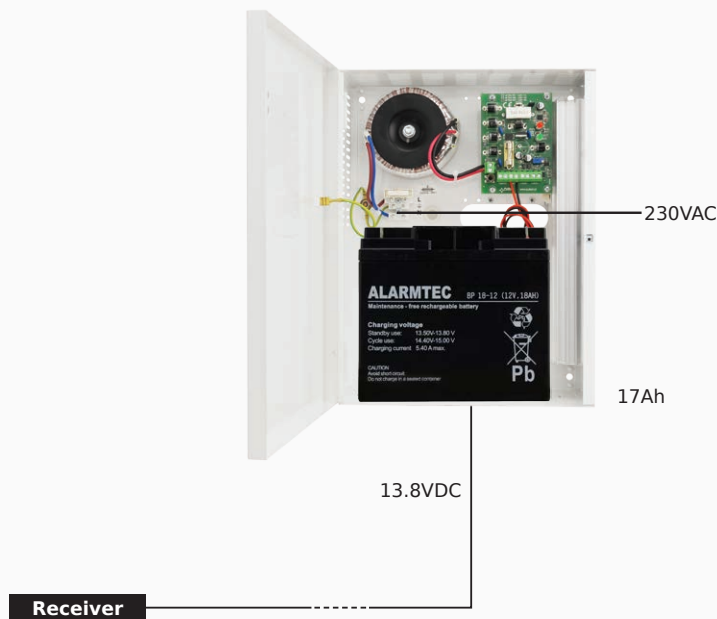
- power supply: 230VAC
- linear voltage regulator
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OHP overheat protection,
  - surge protection,
  - antisabotage protection
- warranty: 5 years from production date



Sample product  
**AWZ300**

| Code          | Output voltage | Total current | Battery charging current | Fitting battery | Dimensions W x H x D [mm] |
|---------------|----------------|---------------|--------------------------|-----------------|---------------------------|
| <b>AWZ100</b> | 13.8VDC        | 1A            | 0.1A                     | 1.2Ah           | 170 x 180 x 80            |
| <b>AWZ101</b> |                | 1A            | 0.1A                     | 7Ah             | 200 x 230 x 80            |
| <b>AWZ200</b> |                | 2A            | 0.3A                     | 7Ah             | 200 x 230 x 80            |
| <b>AWZ201</b> |                | 2A            | 0.3A                     | 17Ah            | 230 x 300 x 90            |
| <b>AWZ300</b> |                | 3A            | 0.7A                     | 17Ah            | 230 x 300 x 90            |

Sample product: AWZ300



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom



**Buffer power supply units 13.8VDC / 27.6VDC  
linear, compliant with EN50131-6 standard for alarm systems  
AWZ plus series**

**GREY POWER plus**

**Features**

- power supply: 230VAC
- linear voltage regulator
- in accordance with EN50131-6, GRADE 1+2 standard for alarm systems and II environmental class
- technical outputs OC type:
  - EPS – 230V power failure AC,
  - PSU – power supply failure,
  - APS – indicates battery failure
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OHP overheat protection,
  - surge protection,
  - antisabotage protection,
  - OVP overvoltage protection
- warranty: 5 years from production date

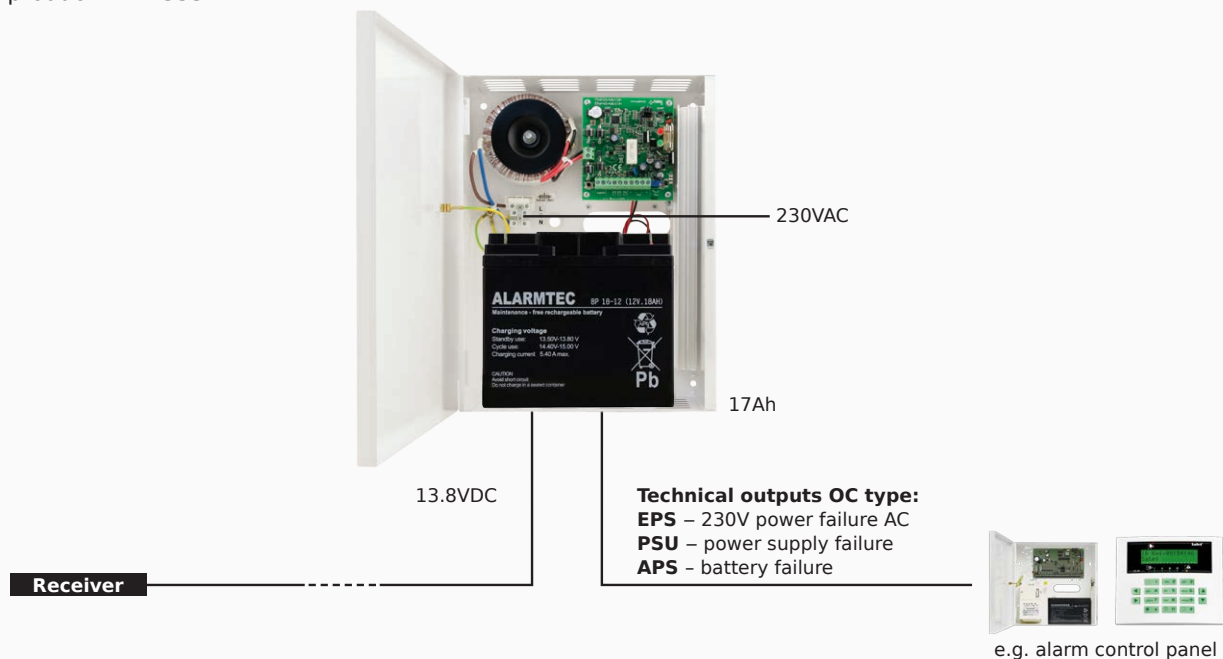


Sample product  
**AWZ333**

| Code          | Output voltage | Total current | Battery charging current | Fitting battery | Dimensions W x H x D [mm] |
|---------------|----------------|---------------|--------------------------|-----------------|---------------------------|
| <b>AWZ110</b> | 13.8VDC        | 1A            | 0.4A                     | 7Ah             | 200 x 230 x 82            |
| <b>AWZ230</b> |                | 2A            | 0.4A / 0.9A              | 7Ah             | 230 x 230 x 92            |
| <b>AWZ222</b> |                | 2A            | 0.4A / 0.9A              | 17Ah            | 230 x 300 x 92            |
| <b>AWZ333</b> |                | 3A            | 0.4A / 0.9A              | 17Ah            | 230 x 300 x 92            |
| <b>AWZ224</b> | 27.6VDC        | 2A            | 0.4A                     | 2 x 7Ah         | 230 x 300 x 92            |

**Compliant with  
EN50131-6 standard  
for alarm systems**

Sample product: AWZ333



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

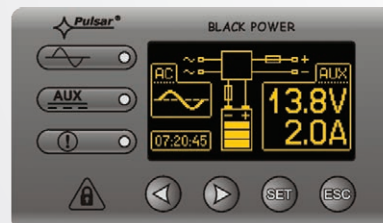
## Buffer power supply units 13.8VDC / 27.6VDC

switch mode, in accordance with EN50131-6, GRADE 1, 2, 3 standard for alarm systems  
PSBEN series

### BLACK POWER



LED display



graphic LCD display

### Features

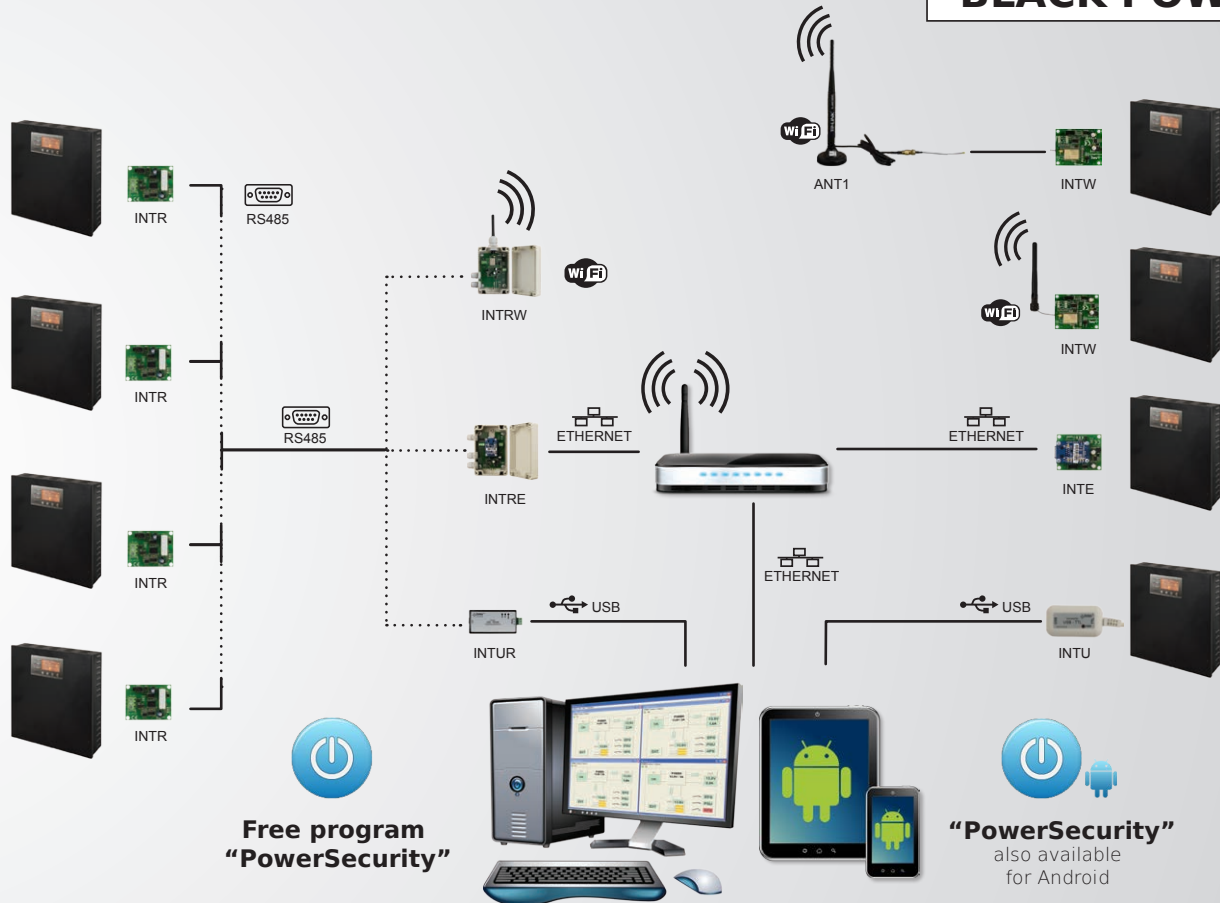
- power supply: 230VAC
- switch mode type
- microprocessor-based operating control
- in accordance with EN50131-6, GRADE 1÷3 standard for alarm systems and II environmental class
- intelligent management of PSU power's output stage
- battery circuit continuity control
- battery fuse status control
- collective failure input EXT IN
- technical outputs with galvanic isolation:
  - EPS – 230V power failure AC,
  - PSU – power supply failure,
  - APS – indicates battery failure
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OVP overvoltage protection,
  - OHP overheat protection,
  - surge protection,
  - antisabotage protection (tamper anti door opening and detachment from mounting surface)
- warranty: 5 years from production date



**MTP Gold Medal  
Securex 2014**

**In accordance  
with EN50131-6,  
GRADE 1, 2, 3 standard  
for alarm systems**

# BLACK POWER



| Code | Output voltage | Fitting battery | Display types | Output current for general purpose application * |
|------|----------------|-----------------|---------------|--|
|------|----------------|-----------------|---------------|--|

### Available models for 13.8VDC version

|                 |         |      |     |     |
|-----------------|---------|------|-----|-----|
| PSBEN2012B      | 13.8VDC | 7Ah  | LED | 2A  |
| PSBEN3012C      |         | 17Ah | LED | 3A  |
| PSBEN3012C/LCD  |         | 17Ah | LCD | 3A  |
| PSBEN5012C      |         | 17Ah | LED | 5A  |
| PSBEN5012C/LCD  |         | 17Ah | LCD | 5A  |
| PSBEN5012D      |         | 40Ah | LED | 5A  |
| PSBEN5012D/LCD  |         | 40Ah | LCD | 5A  |
| PSBEN5012E      |         | 65Ah | LED | 5A  |
| PSBEN10A12D     |         | 40Ah | LED | 10A |
| PSBEN10A12D/LCD |         | 40Ah | LCD | 10A |
| PSBEN10A12E     |         | 65Ah | LED | 10A |
| PSBEN10A12E/LCD |         | 65Ah | LCD | 10A |

### Available models for 27.6VDC version

|                |         |        |     |    |
|----------------|---------|--------|-----|----|
| PSBEN2024B     | 27.6VDC | 2×7Ah  | LED | 2A |
| PSBEN3024C/LCD |         | 2×17Ah | LCD | 3A |
| PSBEN5024C     |         | 2×17Ah | LED | 5A |
| PSBEN5024C/LCD |         | 2×17Ah | LCD | 5A |

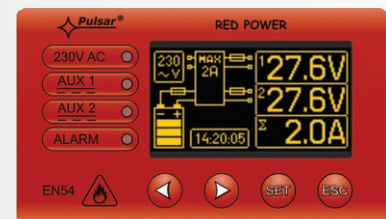
\* accurate current efficiencies taking into account battery charging currents for individual degrees of protection can be found in data sheets

**Buffer power supply units 27.6VDC  
switch mode, EN54-4 certified  
EN54 series**

**RED POWER**



LED display



graphic LCD display

**Features**

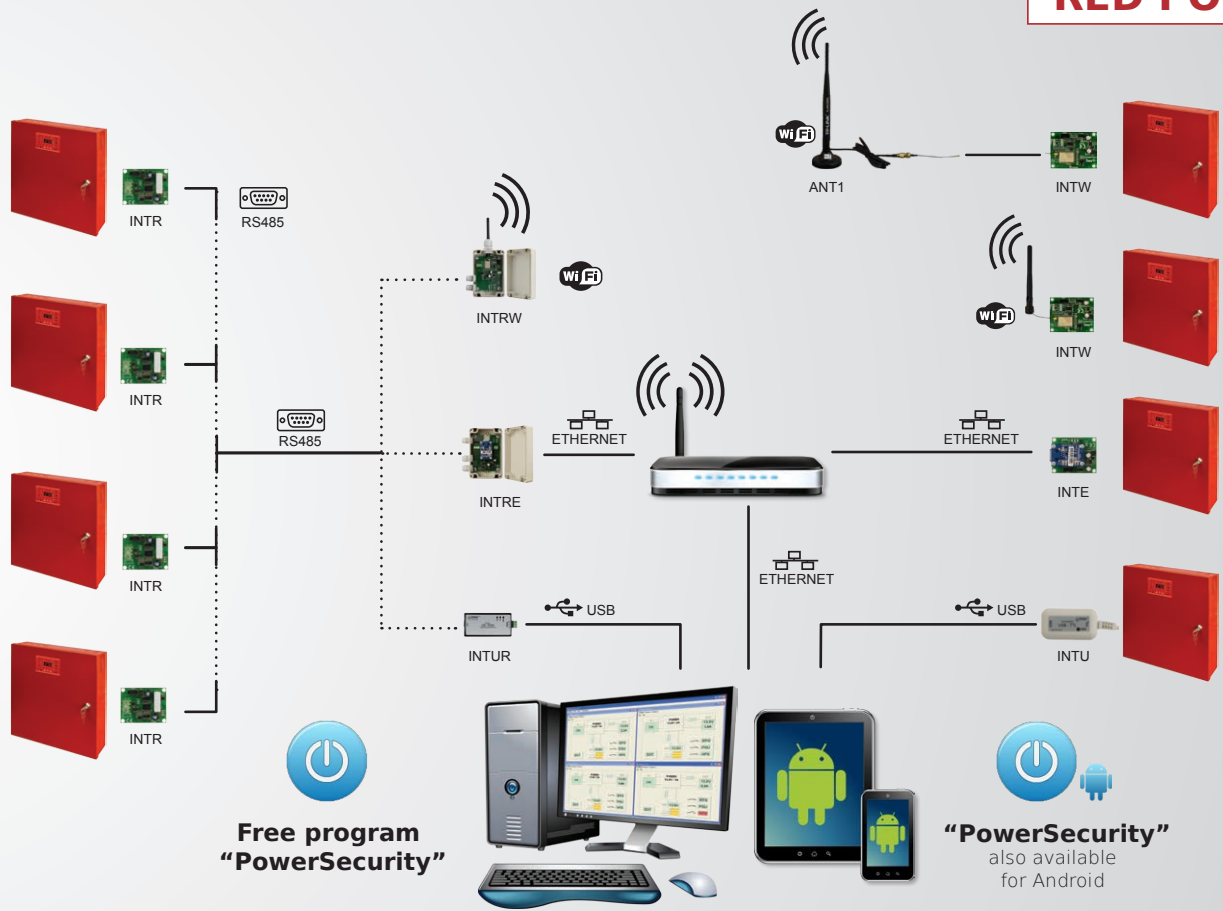
- power supply: 230VAC
- switch mode type
- microprocessor-based operating control
- compliant with EN54-4 and EN12101-10 standards
- certificate of constancy of performance CNBOP-PIB No. 1438-CPR-0385
- certificate of approval CNBOP-PIB No. 2174/2014
- independently protected outputs AUX1 and AUX2
- intelligent PSU overload protection
- monitoring of continuity of battery circuit
- controlled relay output EXT0
- technical outputs with galvanic isolation:
  - EPS – 230V power failure AC,
  - PSU – power supply failure,
  - APS – indicates battery failure
- internal memory of PSU operating status
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OVP overvoltage protection,
  - OHP overheat protection,
  - surge protection,
  - antisabotage protection (tamper anti door opening)
- warranty: 5 years from production date



**MTP Gold Medal  
Securex 2016**



**EN54-4  
certified**



| Code | Output voltage | Fitting battery | Total current  |  |
|------|----------------|-----------------|--|--|
|      |                |                 | for continuous operation – $I_{MAX a}$<br>$I_o + I_{load}$ | for intermittent operation – $I_{MAX b}$<br>$I_o + I_{load}$ |

**With microprocessor-based operating control and LED display**

|           |         |        |             |          |
|-----------|---------|--------|-------------|----------|
| EN54-2A17 | 27.6VDC | 2×17Ah | 1A + 1A     | 2.0 + 0A |
| EN54-3A17 |         | 2×17Ah | 2A + 1A     | 3.0 + 0A |
| EN54-3A28 |         | 2×28Ah | 1.5A + 1.5A | 3.0 + 0A |
| EN54-5A17 |         | 2×17Ah | 4A + 1A     | 5.0 + 0A |
| EN54-5A28 |         | 2×28Ah | 3.5A + 1.5A | 5.0 + 0A |
| EN54-5A40 |         | 2×40Ah | 3A + 2A     | 5.0 + 0A |
| EN54-7A17 |         | 2×17Ah | 6A + 1A     | 7.0 + 0A |
| EN54-7A28 |         | 2×28Ah | 5.5A + 1.5A | 7.0 + 0A |
| EN54-7A40 |         | 2×40Ah | 5A + 2A     | 7.0 + 0A |

**With microprocessor-based operating control and graphic LCD display**

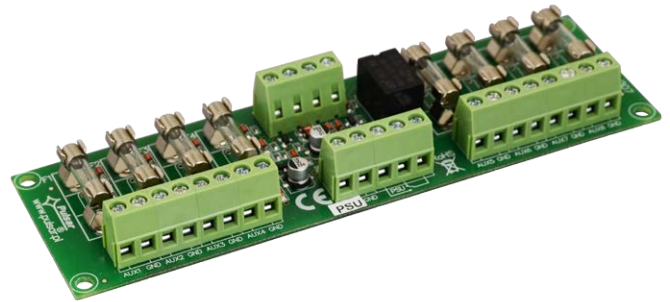
|              |         |        |             |          |
|--------------|---------|--------|-------------|----------|
| EN54-2A17LCD | 27.6VDC | 2×17Ah | 1A + 1A     | 2.0 + 0A |
| EN54-3A17LCD |         | 2×17Ah | 2A + 1A     | 3.0 + 0A |
| EN54-3A28LCD |         | 2×28Ah | 1.5A + 1.5A | 3.0 + 0A |
| EN54-5A17LCD |         | 2×17Ah | 4A + 1A     | 5.0 + 0A |
| EN54-5A28LCD |         | 2×28Ah | 3.5A + 1.5A | 5.0 + 0A |
| EN54-5A40LCD |         | 2×40Ah | 3A + 2A     | 5.0 + 0A |
| EN54-7A17LCD |         | 2×17Ah | 6A + 1A     | 7.0 + 0A |
| EN54-7A28LCD |         | 2×28Ah | 5.5A + 1.5A | 7.0 + 0A |
| EN54-7A40LCD |         | 2×40Ah | 5A + 2A     | 7.0 + 0A |

# Fuse modules for power supply units of EN54 series

**RED POWER**

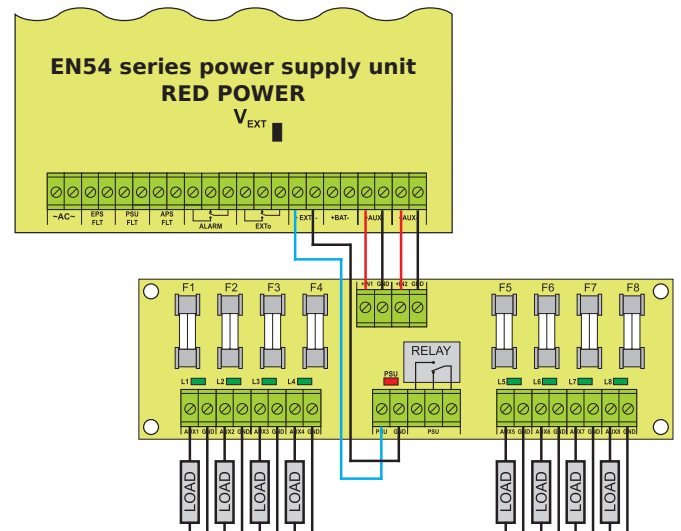
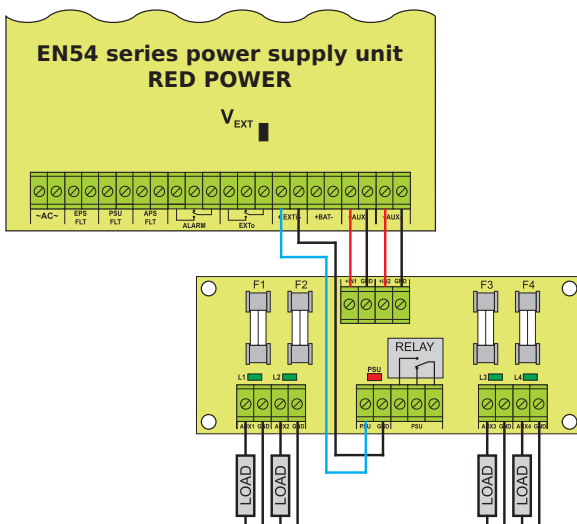


**EN54-LB4**  
LB4/0.5A/FTA fuse module EN54



**EN54-LB8**  
LB8/0.5A/FTA fuse module EN54

|                                | EN54-LB4   | EN54-LB8  |
|--------------------------------|--|---|
| Supply voltage                 | 20÷30VDC   |   |
| Output voltage                 | $U_{AUX}=U_{IN}$ (applying power)  |   |
| Current consumption            | 25÷42mA @ $U_{in}=20+30VDC$  | 43÷73mA @ $U_{in}=20+30VDC$   |
| Number of power outputs        | 2 (IN1, IN2)   |   |
| Number of outputs              | 4 (AUX1÷AUX4)  | 8 (AUX1÷AUX8)   |
| Short circuit protection (SCP) | 4 × F 0.5A   | 8 × F 0.5A  |
| LED operation indication       | LEDs:<br>L1,...,L4 – AUX1,...,AUX4 outputs status<br>PSU – failure indication  | LEDs:<br>L1,...,L8 – AUX1,...,AUX8 outputs status<br>PSU – failure indication |
| Technical outputs              | PSU – technical output (OC type) indicating failure to connect to power supply<br>PSU – technical output (relay type) indicating failure |   |
| Enclosure                      | No, "open frame", IP00   |   |
| Dimensions                     | W=110.5<br>H=45<br>D=32<br>[mm]  | W=150<br>H=45<br>D=32<br>[mm]   |
| Operating conditions           | II environmental class, -10°C ÷ +50°C  |   |
| Declarations, warranty         | Declaration: CE, RoHS; 5 years from production date  |   |
| Installation                   | Spacers × 6  |   |



# “PowerSecurity” software for power supply units of PSBEN and EN54 series



PowerSecurity is program allowing remote monitoring of power supply units of PSBEN or EN54 series equipped with communication interface. Application allows to configure connections, analyze current parameters and to manage groups of power supply units.

## Power supply units of PSBEN series

For power supply units of PSBEN series, remote desktop window allows monitoring following parameters:

- voltage and current at AUX output of power supply units
- 230V mains supply status
- voltage and battery charging level (optional remote battery test)
- status of technical outputs (EPS, PSU, APS)
- status of input of collective failure – EXTi

Additionally, it is possible to read history of events and in case of power supply units fitted with LCD display to read, history of parameters.

## Power supply units of EN54 series

For power supply units of EN54 series remote desktop window allows monitoring following parameters:

- voltage at AUX1 and AUX2 outputs and total current
- status and value of 230V mains supply
- voltage, battery level, temperature and internal resistance of battery, optional remote battery test
- status of technical outputs (EPS, PSU, APS, Alarm)
- status of input of collective failure EXTi
- status of controlled relay output EXT0
- status of TAMPER input

Additionally, it is possible to read history of events and in case of power supply units fitted with LCD display to read, history of parameters.

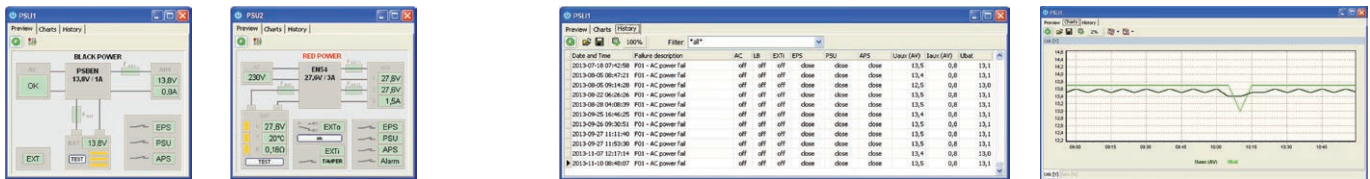
## For power supply units with LED display



Remote desktop window of PSU

Event log

## For power supply units with LCD display



Remote desktop window of PSU

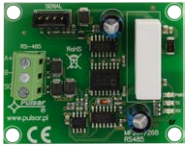
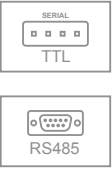

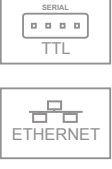


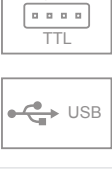










Event log

History of parameters

**Free program  
“PowerSecurity”**

**“PowerSecurity”**  
also available  
for Android

## Interfaces for buffer power supplies of PSBEN / EN54 series

|   |   |  |
|---|---|--|
|    |    | <p><b>INTR</b> – Interface RS485-TTL</p> <ul style="list-style-type: none"> <li>• Destination: connection of PSU of PSBEN or EN54 series with RS485</li> <li>• Power supply: 5VDC / max. 30mA from “SERIAL” socket of power supply unit</li> <li>• Galvanic separation between RS485 and TTL interfaces</li> </ul>   |
|    |    | <p><b>INTE</b> – Interface ETHERNET</p> <ul style="list-style-type: none"> <li>• Destination: Power supplies of PSBEN or EN54 series are connected with ETHERNET network</li> <li>• Power supply: 5VDC / max. 0.95W from “SERIAL” socket of power supply unit</li> <li>• Assigning static or dynamic IP address (DHCP server)</li> <li>• <b>Permission of Scientific and Research Centre for Fire Protection – National Research Institute for use with power supplies of EN54 series in fire alarm systems</b></li> </ul> |
|    |    | <p><b>INTW</b> – Interface Wi-Fi</p> <ul style="list-style-type: none"> <li>• Destination: Connecting power supply unit of PSBEN or EN54 series with Wi-Fi network</li> <li>• Power supply: 5VDC / max.210mA from “SERIAL” socket of power supply unit</li> <li>• Assigning static or dynamic IP address (DHCP server)</li> <li>• <b>Permission of Scientific and Research Centre for Fire Protection – National Research Institute for use with power supplies of EN54 series in fire alarm systems</b></li> </ul>        |
|   |   | <p><b>INTU</b> – Interface USB-TTL</p> <ul style="list-style-type: none"> <li>• Destination: Power supplies of PSBEN or EN54 series are locally connected to computer via USB port</li> <li>• Power supply: 5VDC / max. 25mA from computer’s USB port</li> <li>• Compliance of USB interface: USB1.1 / USB 2.0 (Full Speed)</li> <li>• Transmission’s speed: max. 115200 bauds, with parity check</li> </ul>   |
|  |  | <p><b>INTC</b> – Programmer</p> <ul style="list-style-type: none"> <li>• Destination: WiFi interface configuration: INTW, INTRW</li> <li>• Power supply: 5VDC / max. 25mA from computer’s USB port</li> <li>• Compliance of USB interface: USB1.1 / USB 2.0 (Full Speed)</li> <li>• Transmission’s speed: max. 115200 bauds, with parity check</li> </ul>  |
|  |  | <p><b>INTRE</b> – Interface RS485-ETHERNET</p> <ul style="list-style-type: none"> <li>• Destination: Device to convert signals between RS485 and ETHERNET network</li> <li>• Power supply: 10÷30VDC / max.0,95W</li> <li>• Assigning static or dynamic IP address (DHCP server)</li> <li>• <b>Permission of Scientific and Research Centre for Fire Protection – National Research Institute for use with power supplies of EN54 series in fire alarm systems</b></li> </ul>   |
|  |  | <p><b>INTRW</b> – Interface RS485-Wi-Fi</p> <ul style="list-style-type: none"> <li>• Destination: Device to convert signals between RS485 and Wi-Fi network</li> <li>• Power supply: 10÷30VDC / 80÷20mA</li> <li>• Assigning static or dynamic IP address (DHCP server)</li> <li>• <b>Permission of Scientific and Research Centre for Fire Protection – National Research Institute for use with power supplies of EN54 series in fire alarm systems</b></li> </ul>   |
|  |  | <p><b>INTUR</b> – Interface USB-RS485</p> <ul style="list-style-type: none"> <li>• Destination: Data conversion from RS485 to PC via USB port</li> <li>• Power supply: 5VDC / max. 25mA via USB port</li> <li>• Compliance of USB interface: USB1.1 / USB 2.0 (Full Speed)</li> <li>• Transmission’s speed: max. 115200 bauds, with parity check</li> </ul>  |
|  |  | <p><b>ANT1</b> – 2.4GHz WiFi Antenna with Magnetic Base</p> <ul style="list-style-type: none"> <li>• Destination: Omnidirectional antenna is designed for operation in 2.4GHz WiFi band</li> <li>• Frequency / Impedance: 2.4GHz / 50 Ohm</li> <li>• VSWR / Energy gain: &lt;2.0 / 5dBi</li> <li>• Polarization: Vertical</li> <li>• Cable: length 1.5m / SMA-RP/U.FL plug</li> </ul>  |



# Buffer power supply units 13.8VDC switch mode, with technical outputs in hermetic enclosure IP65 PSBSH series

## Features

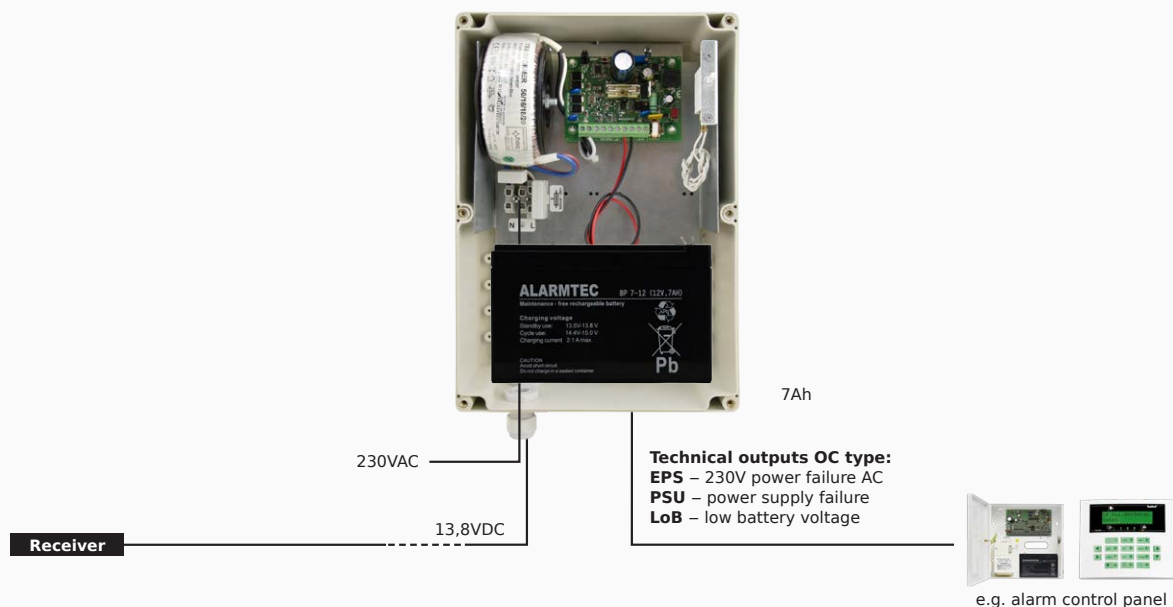
- power supply: 230VAC
- impulse voltage stabilizer
- IP65 hermetic enclosure, ABS
- technical outputs OC type:
  - EPS – 230V power failure AC,
  - PSU – power supply failure,
  - LoB – low battery voltage
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OHP overheat protection,
  - surge protection,
  - antisabotage protection
- warranty: 2 years from production date



Sample product  
**PSBSH2012B**

| Code              | Output voltage | Total current | Battery charging current | Fitting battery | Dimensions W × H × D [mm] | Number of cable glands / Ø cables |
|-------------------|----------------|---------------|--------------------------|-----------------|---------------------------|-----------------------------------|
| <b>PSBSH1012A</b> | 13,8VDC        | 1A            | 0,2A                     | 1,2Ah           | 160 × 160 × 90            | 2 pieces / 4÷8mm                  |
| <b>PSBSH1012B</b> |                | 1A            | 0,2A / 0,5A              | 7Ah             | 185 × 265 × 95            | 2 pieces / 4÷8mm                  |
| <b>PSBSH2012B</b> |                | 2A            | 0,2A / 0,5A              | 7Ah             | 185 × 265 × 95            | 2 pieces / 4÷8mm                  |

Sample product: PSBSH2012B



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

# Multi-output buffer power supply units 13.8VDC / 27.6VDC / 54VDC with glass fuse / PTC RUPS series

**RACK 19"**

## Features

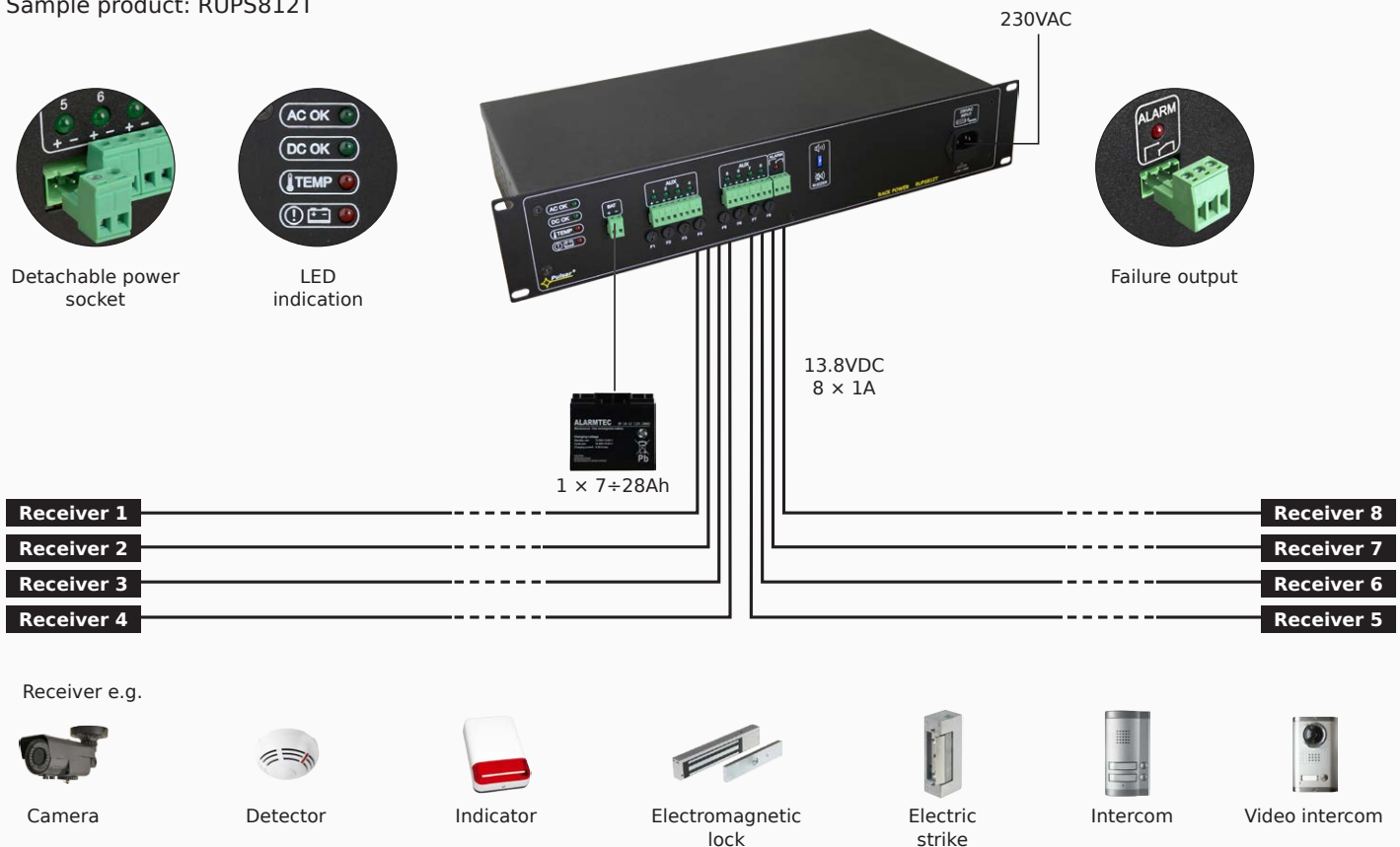
- power supply: 176÷264VAC
  - available models: 13.8VDC / 8 × 1A  
27.6VDC / 8 × 1A  
54VDC / 8 × 0.5A \*
  - number of outputs × fuse: 8 × 0.5A, 8 × 1A \*
  - fuse type: glass fuse / PTC \*
  - battery charging current: 0.5A, 1A \*
  - battery: 1 × 7÷28Ah / 2 × 7÷28Ah / 4 × 7÷17Ah \*
  - deep discharge battery protection – UVP
  - protections:
    - SCP short circuit protection, OLP overload protection, OVP overvoltage protection, surge protection
  - technical output of relay type:
    - ALARM – technical output of collective failure
  - acoustic indication of failure – BUZZER
  - notes:
    - standard RACK 19" – 2U enclosure
  - warranty: 2 years from production date
- \* depending on model



Sample product  
**RUPS812T**

| Code     | Fuse       | Output voltage | Total current | Number of outputs | Battery charging current | Fuse type         | Technical output | Mounting dimensions W <sub>M</sub> × H <sub>M</sub> | Dimensions W × H × D [mm] |
|----------|------------|----------------|---------------|-------------------|--------------------------|-------------------|------------------|---|---------------------------|
| RUPS812T | glass fuse | 13.8VDC        | 9A            | 8 × 1A            | 1A<br>(1 × 7÷28Ah)       | 1A – glass fuse   | ✓                | 19" × 2U  | 482 × 88 × 223            |
| RUPS812P | PTC        |                | 9A            | 8 × 1A            | 1A<br>(1 × 7÷28Ah)       | 1A – PTC          | ✓                | 19" × 2U  | 482 × 88 × 223            |
| RUPS824T | glass fuse | 27.6VDC        | 9A            | 8 × 1A            | 1A<br>(2 × 7÷28Ah)       | 1A – glass fuse   | ✓                | 19" × 2U  | 482 × 88 × 223            |
| RUPS824P | PTC        |                | 9A            | 8 × 1A            | 1A<br>(2 × 7÷28Ah)       | 1A – PTC          | ✓                | 19" × 2U  | 482 × 88 × 223            |
| RUPS848T | glass fuse | 54VDC          | 4.5A          | 8 × 0.5A          | 0.5A<br>(4 × 7÷17Ah)     | 0.5A – glass fuse | ✓                | 19" × 2U  | 482 × 88 × 223            |
| RUPS848P | PTC        |                | 4.5A          | 8 × 0.5A          | 0.5A<br>(4 × 7÷17Ah)     | 0.5A – PTC        | ✓                | 19" × 2U  | 482 × 88 × 223            |

Sample product: RUPS812T



# Buffer power supply units – 1-output 13.8VDC / 27.6VDC / 54VDC with glass fuse

## ROUPS series

**RACK 19"**

### Features

- power supply: 176÷264VAC
  - available models: 13.8VDC / 1 × 18A  
27.6VDC / 1 × 9A  
54VDC / 1 × 4.5A
  - number of outputs × fuse: 1 × 20A / 1 × 10A / 1 × 5A \*
  - fuse type: glass fuse
  - battery charging current: 0.5A / 1A / 2A / 4A / 8A \*
  - battery: 1 × 17÷65Ah / 2 × 7÷28Ah / 4 × 7÷17Ah \*
  - deep discharge battery protection – UVP
  - protections:
    - SCP short circuit protection, OLP overload protection, OVP overvoltage protection, surge protection, OHP overheat protection
  - technical output of relay type:
    - ALARM – technical output of collective failure
  - acoustic indication of failure – BUZZER
  - notes:
    - standard RACK 19" – 2U enclosure
  - warranty: 2 years from production date
- \* depending on model

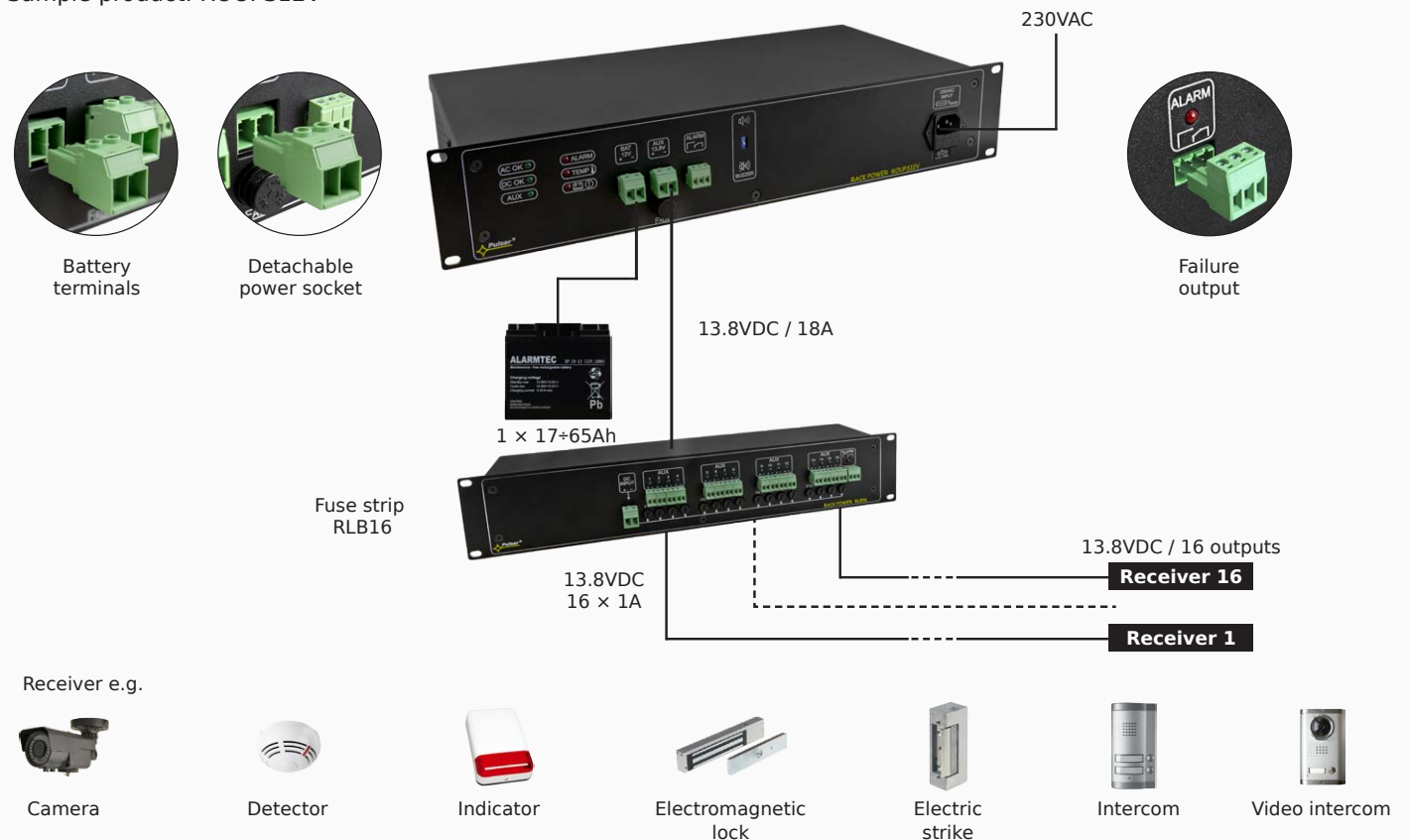


Sample product  
**ROUPS12V**

| Code            | Fuse       | Output voltage | Total current | Number of outputs | Battery charging current       | Fuse type        | Technical output | Mounting dimensions W <sub>M</sub> × H <sub>M</sub> | Dimensions W × H × D [mm] |
|-----------------|------------|----------------|---------------|-------------------|--------------------------------|------------------|------------------|---|---------------------------|
| <b>ROUPS12V</b> | glass fuse | 13.8VDC        | 20A           | 1 × 18A           | 2A / 4A / 8A<br>(1 × 17÷65Ah)  | 20A – glass fuse | ✓                | 19" × 2U  | 482 × 88 × 223            |
| <b>ROUPS24V</b> | glass fuse | 27.6VDC        | 10A           | 1 × 9A            | 1A / 2A / 4A<br>(2 × 7÷28Ah)   | 10A – glass fuse | ✓                | 19" × 2U  | 482 × 88 × 223            |
| <b>ROUPS48V</b> | glass fuse | 54VDC          | 5A            | 1 × 4.5A          | 0.5A / 1A / 2A<br>(4 × 7÷17Ah) | 5A – glass fuse  | ✓                | 19" × 2U  | 482 × 88 × 223            |

**AUX output of power supply can be divided into 8 or 16 outputs using RACK strip fuses: RLB8 or RLB16**

Sample product: ROUPS12V



# Fuses strip 8 / 16 outputs dedicated for power supply units of ROUPS series RLB series

**RACK 19"**

## Features

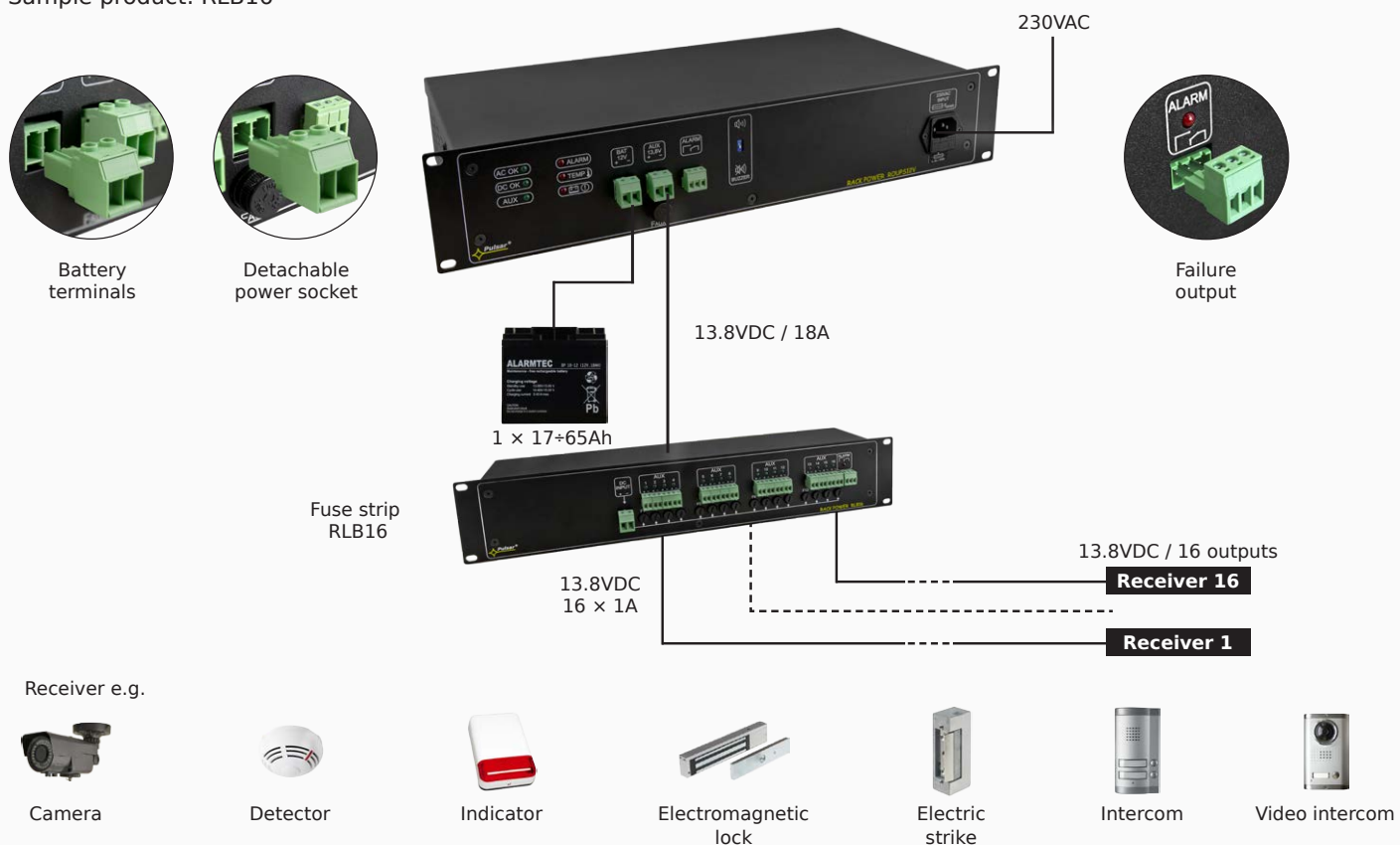
- power supply:  $U_{IN}=10\pm 56VDC$
  - available models:  $U_{OUT}=U_{IN} / 8 \times 2A$  (max.)  
 $U_{OUT}=U_{IN} / 16 \times 1A$  (max.)
  - number of outputs  $\times$  fuse:  $8 \times 2A / 16 \times 1A$  \*
  - fuse type: glass fuse
  - protections:
    - SCP short circuit protection,
    - OLP overload protection
  - technical output of relay type:
    - ALARM – technical output of collective failure
  - notes:
    - standard RACK 19" – 2U enclosure
  - warranty: 2 years from production date
- \* depending on model



Sample product  
**RLB16**

| Code         | Fuse       | Input voltage $U_{IN}$ | Output voltage $U_{OUT}$ | Number of outputs     | Fuse type       | Technical output | Mounting dimensions $W_M \times H_M$ | Dimensions $W \times H \times D$ [mm] |
|--------------|------------|------------------------|--------------------------|-----------------------|-----------------|------------------|--------------------------------------|---------------------------------------|
| <b>RLB8</b>  | glass fuse | $10\pm 56VDC$          | $U_{OUT}=U_{IN}$         | $8 \times 2A$ (max.)  | 2A – glass fuse | ✓                | 19" $\times$ 2U                      | 482 $\times$ 88 $\times$ 74           |
| <b>RLB16</b> | glass fuse | $10\pm 56VDC$          | $U_{OUT}=U_{IN}$         | $16 \times 1A$ (max.) | 1A – glass fuse | ✓                | 19" $\times$ 2U                      | 482 $\times$ 88 $\times$ 74           |

Sample product: RLB16



# Single-output buffer power supply unit 12VDC with glass fuse ROUPS...VR series

**RACK 19"**

## Features

- power supply: 176÷264VAC
- available models: 12VDC / 1 × 5A – power supply of DVR
- number of outputs × fuse: 1 × 5A
- fuse type: glass fuse
- battery charging current: 1A
- battery: 1 × 7÷28Ah
- deep discharge battery protection – UVP
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OVP overvoltage protection,
  - surge protection
- technical output of relay type:
  - ALARM – technical output of collective failure
- acoustic indication of failure – BUZZER
- notes:
  - standard RACK 19" – 2U enclosure
- warranty: 2 years from production date



**ROUPS12VR**

| Code             | Fuse       | Output voltage | Total current | Number of outputs | Battery charging current | Fuse type       | Technical output | Mounting dimensions W <sub>M</sub> × H <sub>M</sub> | Dimensions W × H × D [mm] |
|------------------|------------|----------------|---------------|-------------------|--------------------------|-----------------|------------------|---|---------------------------|
| <b>ROUPS12VR</b> | glass fuse | 12VDC          | 6A            | 1 × 5A            | 1A<br>(1 × 7÷28Ah)       | 5A – glass fuse | ✓                | 19" × 2U  | 482 × 88 × 223            |

## ROUPS12VR



# Battery controllers: 12VDC / 24VDC / 48VDC for buffer power supply units - RACK 19" RCB, RC series

**RACK 19"**

## Features

- cooperation with 12VDC / 13.8VDC / 27.6VDC / 54VDC uninterruptible power supply units
  - fitting battery: 4×7Ah / 4×17Ah \*
  - microprocessor-based automation system
  - an automatic battery test performed every 5 minutes
  - test button at front panel
  - measurement of resistance of battery circuit
  - battery electrical continuity control
  - battery detection
  - low battery voltage indication - DC operation
  - battery output protection against short-circuit and reverse connection
  - technical output of failure - relay - NO/NC/COM
  - acoustic indication of failure - BUZZER - possibility of switching on / off
  - optical indication of failure - LEDs
  - mounting dimensions: 19" × 2U
  - battery cables included
  - warranty: 2 years from production date
- \* depending on model



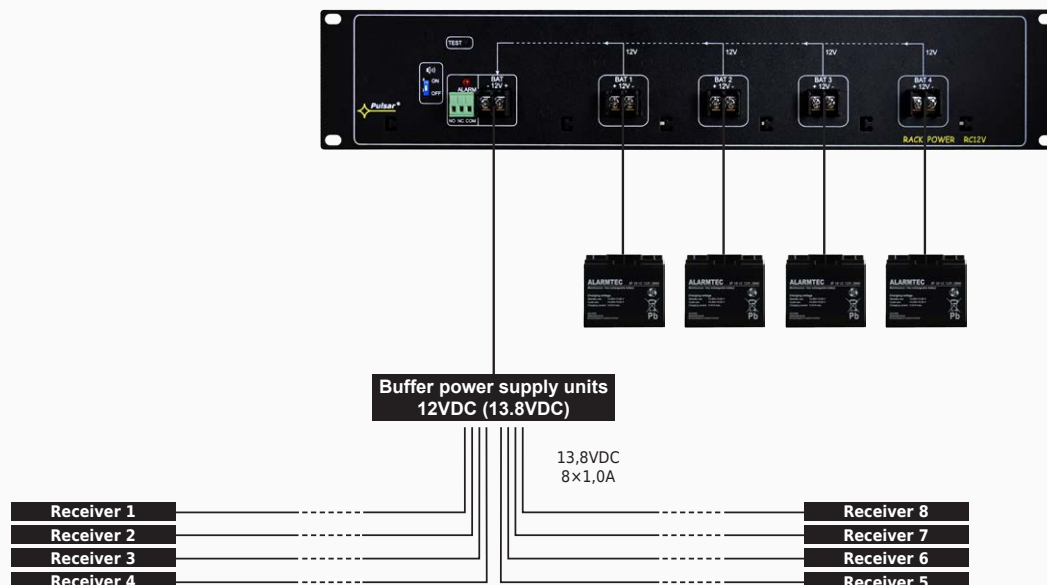
Sample product  
**RCB12V**



Sample product  
**RC12V**

| Code          | Fuse type            | Output voltage | Current (max.) | Fitting battery | Maximum total capacity | Technical output of alarm | Mounting dimensions W×H×D | Dimensions W× H× D [±2mm] | Notes                   |
|---------------|----------------------|----------------|----------------|-----------------|------------------------|---------------------------|---------------------------|---------------------------|-------------------------|
| <b>RCB12V</b> | 1× glass fuse - 25A  | 13,8VDC        | 20A            | 4×17Ah          | 1÷4×7Ah / 17Ah         | ✓                         | 19"×2U×425                | 483 × 88 × 425            | —                       |
| <b>RCB24V</b> | 1× glass fuse - 15A  | 27,6VDC        | 10A            | 4×17Ah          | 2/4×7Ah / 17Ah         | ✓                         | 19"×2U×425                | 483 × 88 × 425            | —                       |
| <b>RCB48V</b> | 1× glass fuse - 7,5A | 54VDC          | 5A             | 4×17Ah          | 4×7Ah / 17Ah           | ✓                         | 19"×2U×425                | 483 × 88 × 425            | —                       |
| <b>RC12V</b>  | 1× glass fuse - 25A  | 13,8VDC        | 20A            | n/a             | 4×17Ah / 3×28Ah        | ✓                         | 19"×2U×60                 | 483 × 88 × 60             | battery cables included |
| <b>RC24V</b>  | 1× glass fuse - 15A  | 27,6VDC        | 10A            | n/a             | 4×17Ah / 2×40Ah        | ✓                         | 19"×2U×60                 | 483 × 88 × 60             |                         |
| <b>RC48V</b>  | 1× glass fuse - 7,5A | 54VDC          | 5A             | n/a             | 4×17Ah                 | ✓                         | 19"×2U×60                 | 483 × 88 × 60             |                         |

Sample product: RC12V



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

# Buffer power supplies mounting on DIN rail 13.8VDC / 27.6VDC DINB series

## Features

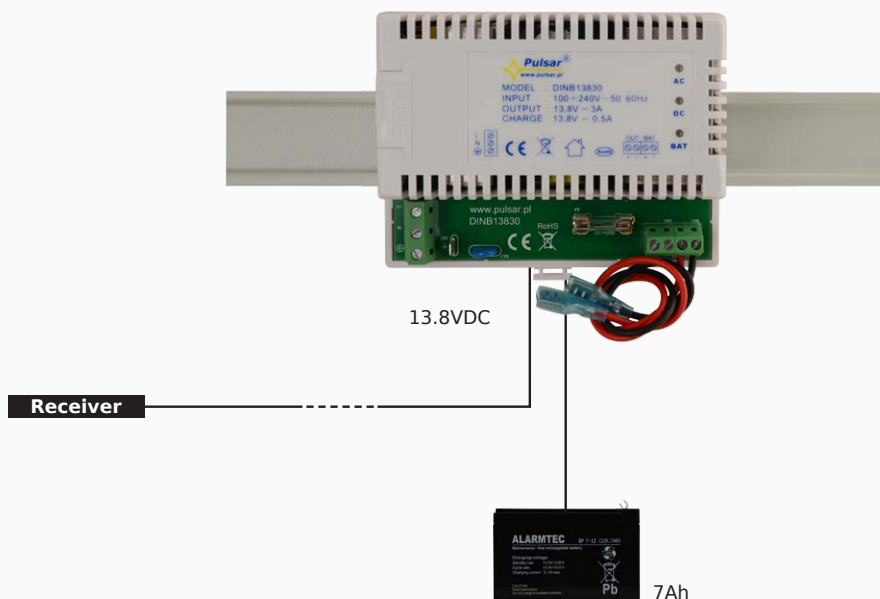
- power supply: 90÷264VAC / 176÷264VAC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - surge protection
- warranty: 2 years from production date



Sample product  
**DINB13830**

| Code             | Output voltage | Total current | Battery charging current | Dimensions W x H x D [mm] |
|------------------|----------------|---------------|--------------------------|---------------------------|
| <b>DINB13810</b> | 13.8VDC        | 1.5A          | 0.5A                     | 122 x 93 x 50             |
| <b>DINB13820</b> |                | 2.5A          | 0.5A                     | 122 x 93 x 50             |
| <b>DINB13830</b> |                | 3.5A          | 0.5A                     | 122 x 93 x 50             |
| <b>DINB13850</b> |                | 5.5A          | 0.5A                     | 122 x 93 x 60             |
| <b>DINB27610</b> | 27.6VDC        | 1.2A          | 0.2A                     | 122 x 93 x 50             |
| <b>DINB27620</b> |                | 2.2A          | 0.2A                     | 122 x 93 x 50             |
| <b>DINB27630</b> |                | 3,2A          | 0.2A                     | 122 x 93 x 60             |

Sample product: DINB13830



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

# Buffer power supply units, enclosed 13.8VDC / 27.6VDC / 54VDC switch mode PSB series

## Features

- power supply: 176÷264VAC
  - impulse voltage stabilizer
  - deep discharge battery protection (UVP)
  - protections:
    - SCP short circuit protection,
    - OLP overload protection,
    - OVP overvoltage protection,
    - surge protection,
    - OHP overheat protection \*
  - warranty: 2 years from production date
- \* depending on model

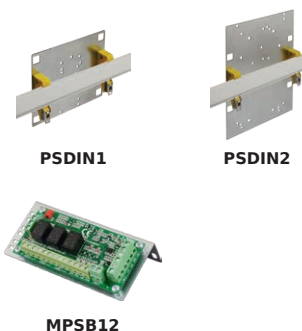


Sample product  
**PSB-1001270**

| Code                | Output voltage | Total current | Battery charging current | Dimensions L x W x H [mm] |
|---------------------|----------------|---------------|--------------------------|---------------------------|
| <b>PSB-251215</b>   | 13.8VDC        | 1.5A          | 0.5A                     | 110 x 78 x 36             |
| <b>PSB-351225</b>   |                | 2.5A          | 0.5A                     | 129 x 98 x 40,5           |
| <b>PSB-501235</b>   |                | 3.5A          | 0.5A                     | 159 x 97 x 42             |
| <b>PSB-751250</b>   |                | 5A            | 0.5A                     | 159 x 97 x 42             |
| <b>PSB-1001270</b>  |                | 7A            | 1A / 2A                  | 199 x 97 x 42             |
| <b>PSB-15512110</b> |                | 11A           | 1A / 4A                  | 199 x 110 x 50            |
| <b>PSB-30012200</b> | 27.6VDC        | 20A           | 2A / 4A / 8A             | 275 x 115 x 50            |
| <b>PSB-502418</b>   |                | 1.8A          | 0.3A                     | 159 x 97 x 42             |
| <b>PSB-1002435</b>  |                | 3.5A          | 0.5A / 1A                | 199 x 97 x 42             |
| <b>PSB-1552455</b>  |                | 5.5A          | 0.5A / 2A                | 199 x 110 x 50            |
| <b>PSB-30024100</b> |                | 10A           | 1A / 2A / 4A             | 275 x 115 x 50            |
| <b>PSB-754813</b>   |                | 54VDC         | 1.3A                     | 0.3A                      |
| <b>PSB-1554828</b>  | 2.8A           |               | 0.5A / 1A                | 199 x 97 x 50             |
| <b>PSB-3004850</b>  | 5A             |               | 0.5A / 1A / 2A           | 275 x 115 x 50            |

## Accessories

- PSDIN1 – Bracket DIN/PS/PSB1
- PSDIN2 – Bracket DIN/PS/PSB2
- MPSB12 – Operating automation module PSB 13.8V
- MPSB24 – Operating automation module PSB 27.6V
- MPSB48 – Operating automation module PSB 54V



Sample product: PSB-1001270



13.8VDC

Receiver



7÷65Ah

Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom



# Buffer power supply units, enclosed 13.8VDC / 27.6VDC / 54VDC switch mode, with technical outputs PSBOC series

## Features

- power supply: 176÷264VAC
- impulse voltage stabilizer
- technical outputs OC and relay type:
  - EPS – 230V power failure AC,
  - PSU – power supply failure,
  - LoB – low battery voltage
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OVP overvoltage protection,
  - surge protection,
  - OHP overheat protection \*
- warranty: 2 years from production date

\* depending on model

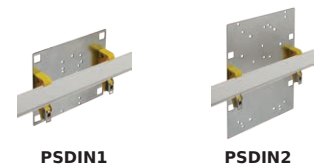


Sample product  
**PSBOC1001270**

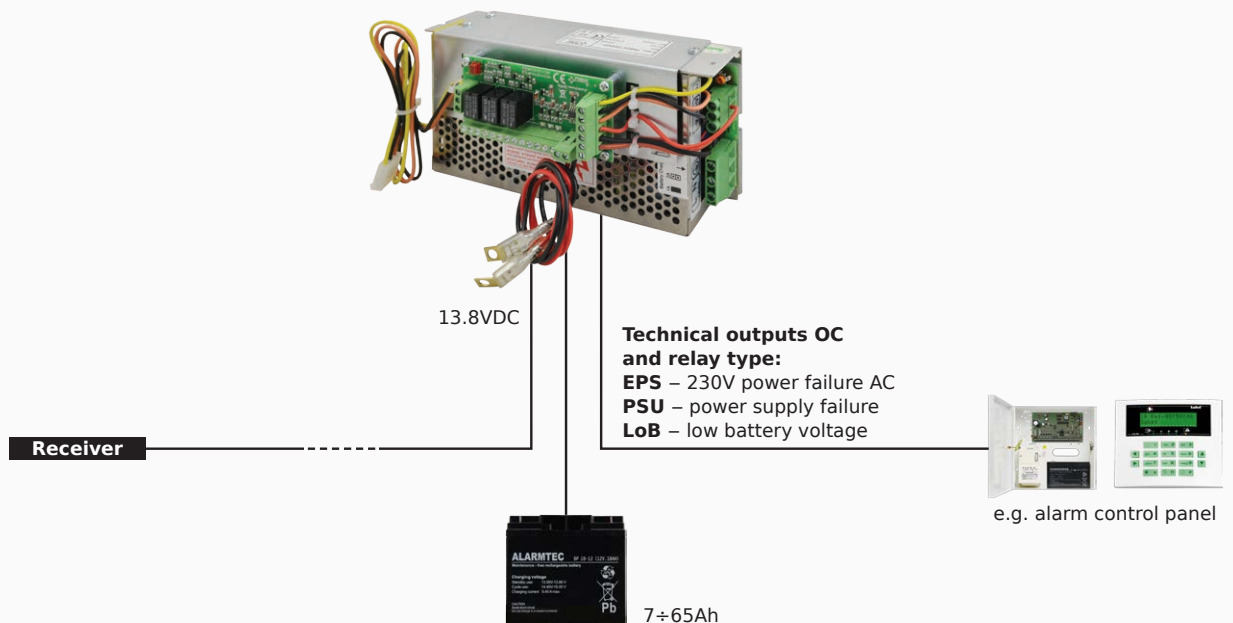
| Code          | Output voltage | Total current | Battery charging current | Technical outputs | Dimensions L x W x H [mm] |
|---------------|----------------|---------------|--------------------------|-------------------|---------------------------|
| PSBOC351225   | 13.8VDC        | 2.5A          | 0.5A                     | ✓                 | 129 x 98 x 63,5           |
| PSBOC501235   |                | 3.5A          | 0.5A                     | ✓                 | 159 x 97 x 65             |
| PSBOC751250   |                | 5A            | 0.5A                     | ✓                 | 159 x 97 x 65             |
| PSBOC1001270  |                | 7A            | 1A / 2A                  | ✓                 | 199 x 97 x 65             |
| PSBOC15512110 |                | 11A           | 1A / 4A                  | ✓                 | 199 x 110 x 73            |
| PSBOC30012200 |                | 20A           | 2A / 4A / 8A             | ✓                 | 275 x 115 x 73            |
| PSBOC1002435  | 54VDC          | 3.5A          | 0.5A / 1A                | ✓                 | 199 x 97 x 65             |
| PSBOC1552455  |                | 5.5A          | 0.5A / 2A                | ✓                 | 199 x 110 x 73            |
| PSBOC30024100 |                | 10A           | 1A / 2A / 4A             | ✓                 | 275 x 115 x 73            |
| PSBOC754813   |                | 1.3A          | 0.3A                     | ✓                 | 159 x 97 x 65             |
| PSBOC1554828  |                | 2.8A          | 0.5A / 1A                | ✓                 | 199 x 110 x 73            |
| PSBOC3004850  |                | 5A            | 0.5A / 1A / 2A           | ✓                 | 275 x 115 x 73            |

## Accessories

- PSDIN1 – Bracket DIN/PS/PSB1
- PSDIN2 – Bracket DIN/PS/PSB2



Sample product: PSBOC1001270



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom

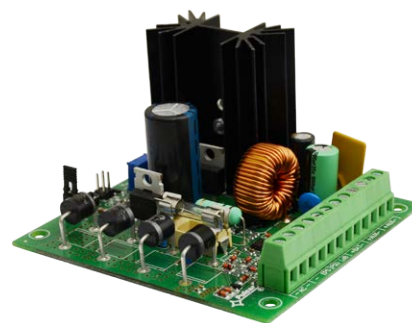


Video intercom

# Buffer power supply modules 13.8VDC / 27.6VDC switch mode, with technical outputs MS / MSR / MSRK series

## Features

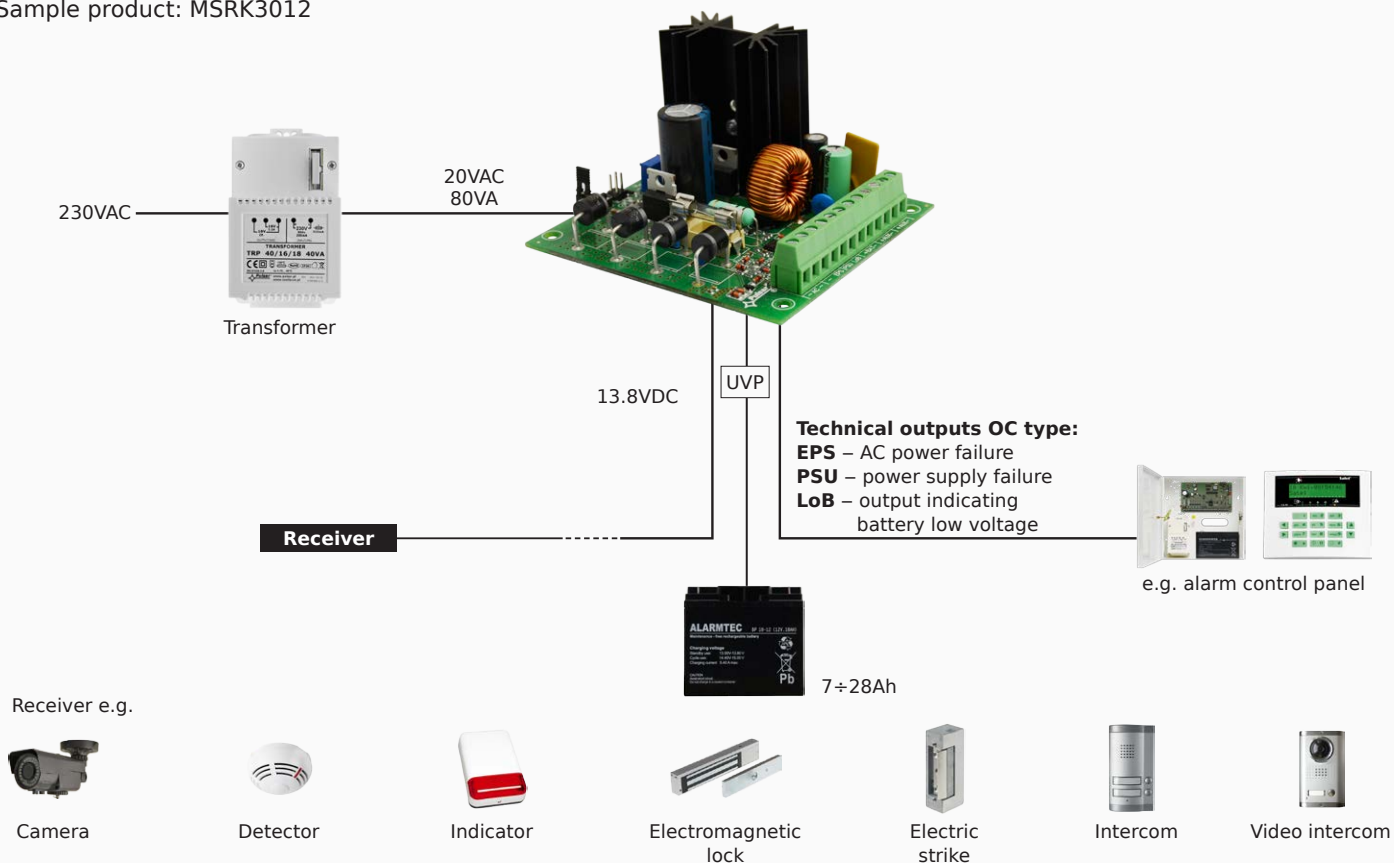
- available models:
  - MS and MSR series: 13.8VDC / 1A; 2A
  - MSRK series: 13.8VDC / 1A; 2A; 3A  
27.6VDC / 0.8A; 2A; 3A
- impulse voltage stabilizer
- supply voltage: external transformer required 18÷22VAC / 18÷33VAC
- battery charging and maintenance control
- battery output short circuit protection and reverse polarity connection
- protections: SCP short circuit protection, OLP overload protection, OHP overheat protection, surge protection
- for MSR series:
  - technical output relay type: FAC – AC power failure
- for MSRK series:
  - technical outputs OC type: EPS – 230V power failure AC, PSU – power supply failure, LoB – low battery voltage
  - deep discharge battery protection (UVP)
  - adjustable times indicating AC power failure
  - START facility for manual battery connection
- warranty: 5 years from production date



Sample product  
**MSRK3012**

| Code     | Output voltage | Total current | Battery charging current | Technical outputs | Deep discharge battery protection | Dimensions W x H x D [mm] |
|----------|----------------|---------------|--------------------------|-------------------|-----------------------------------|---------------------------|
| MS1012   | 13.8VDC        | 1.2A          | 0.2A / 0.5A              | —                 | —                                 | 74,5 x 53 x 25            |
| MS2012   |                | 2.2A          | 0.2A / 0.5A              | —                 | —                                 | 74,5 x 55 x 40            |
| MSR1012  |                | 1.2A          | 0.2A / 0.5A              | ✓                 | —                                 | 85 x 58 x 25              |
| MSR2012  |                | 2.2A          | 0.2A / 0.5A              | ✓                 | —                                 | 85 x 63 x 40              |
| MSRK1012 |                | 1.2A          | 0.2A / 0.5A              | ✓                 | ✓                                 | 86 x 58 x 25              |
| MSRK2012 |                | 2.2A          | 0.2A / 0.5A              | ✓                 | ✓                                 | 86 x 63 x 40              |
| MSRK3012 | 27.6VDC        | 3.5A          | 0.5A / 1A                | ✓                 | ✓                                 | 88 x 93 x 55              |
| MSRK1024 |                | 1A            | 0.2A / 0.5A              | ✓                 | ✓                                 | 86 x 63 x 35              |
| MSRK2024 |                | 2.2A          | 0.2A / 0.5A              | ✓                 | ✓                                 | 88 x 93 x 43              |
| MSRK3024 |                | 3.5A          | 0.5A / 1A                | ✓                 | ✓                                 | 105 x 143 x 44            |

Sample product: MSRK3012



# Buffer power supply modules 13.8VDC linear, with technical outputs ML / MLR / MLRK series

## Features

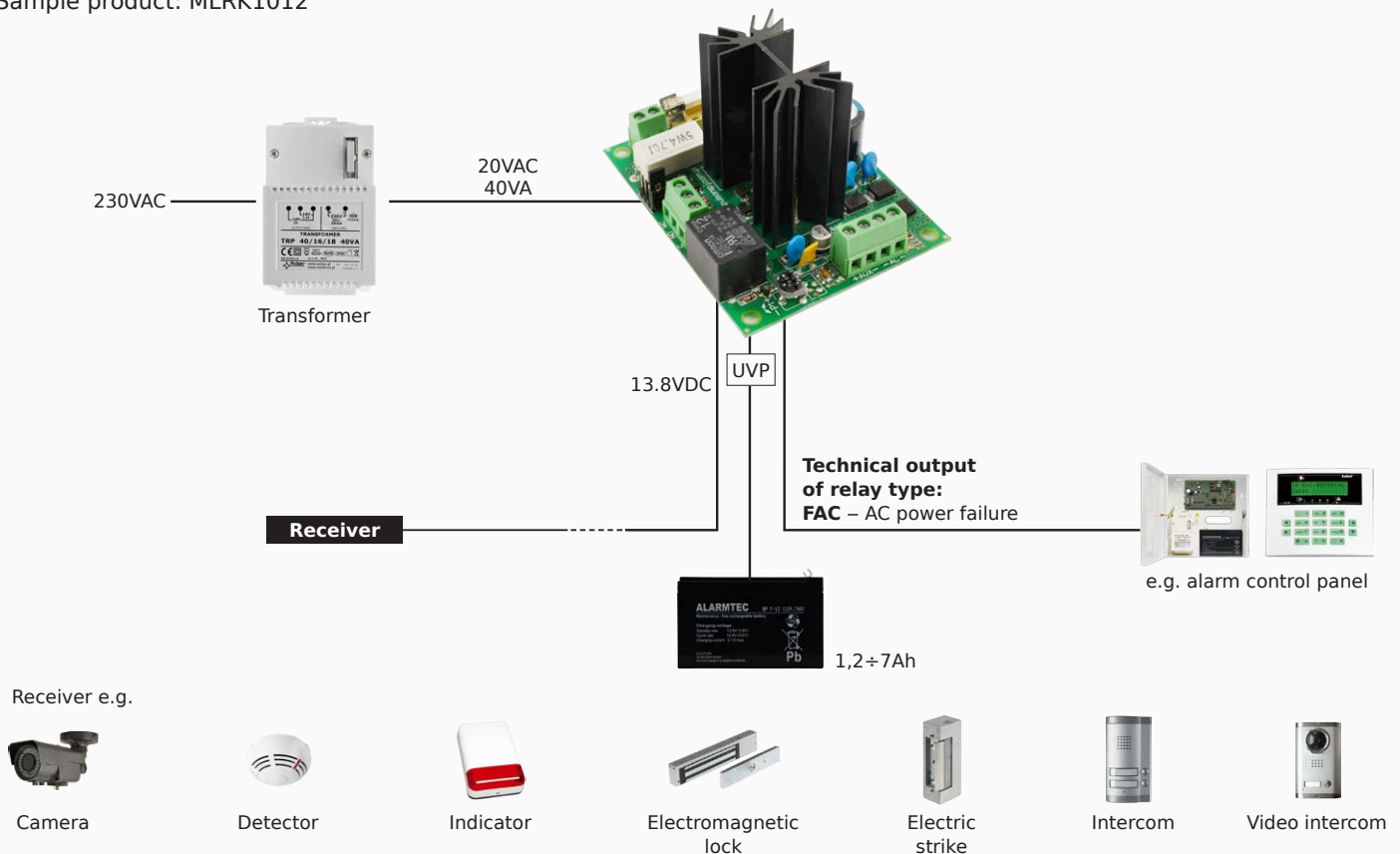
- available models – 13.8VDC / 1A
- linear voltage regulator
- supply voltage: external transformer required 16÷17VAC (e.g. AWT150)
- battery charging and maintenance control
- battery output short circuit protection and reverse polarity connection
- battery charging current 0.1A
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OHP overheat protection,
  - surge protection
- for MLR series:
  - technical output relay type: FAC – indicating AC power loss
- for MLRK series:
  - technical output relay type: FAC – indicating AC power loss
  - deep discharge battery protection (UVP)
  - adjustable times indicating AC power failure
- warranty: 5 years from production date



Sample product  
**MLRK1012**

| Code            | Output voltage | Total current | Battery charging current | Technical output | Deep discharge battery protection | Dimensions W × H × D [mm] |
|-----------------|----------------|---------------|--------------------------|------------------|-----------------------------------|---------------------------|
| <b>ML1012</b>   | 13.8VDC        | 1A            | 0.1A                     | —                | —                                 | 90 × 55 × 72              |
| <b>MLR1012</b>  |                | 1A            | 0.1A                     | ✓                | —                                 | 90 × 55 × 72              |
| <b>MLRK1012</b> |                | 1A            | 0.1A                     | ✓                | ✓                                 | 90 × 55 × 72              |

Sample product: MLRK1012



# Buffer power supply module 13.8VDC switch mode, for DIN rail MSRD series

## Features

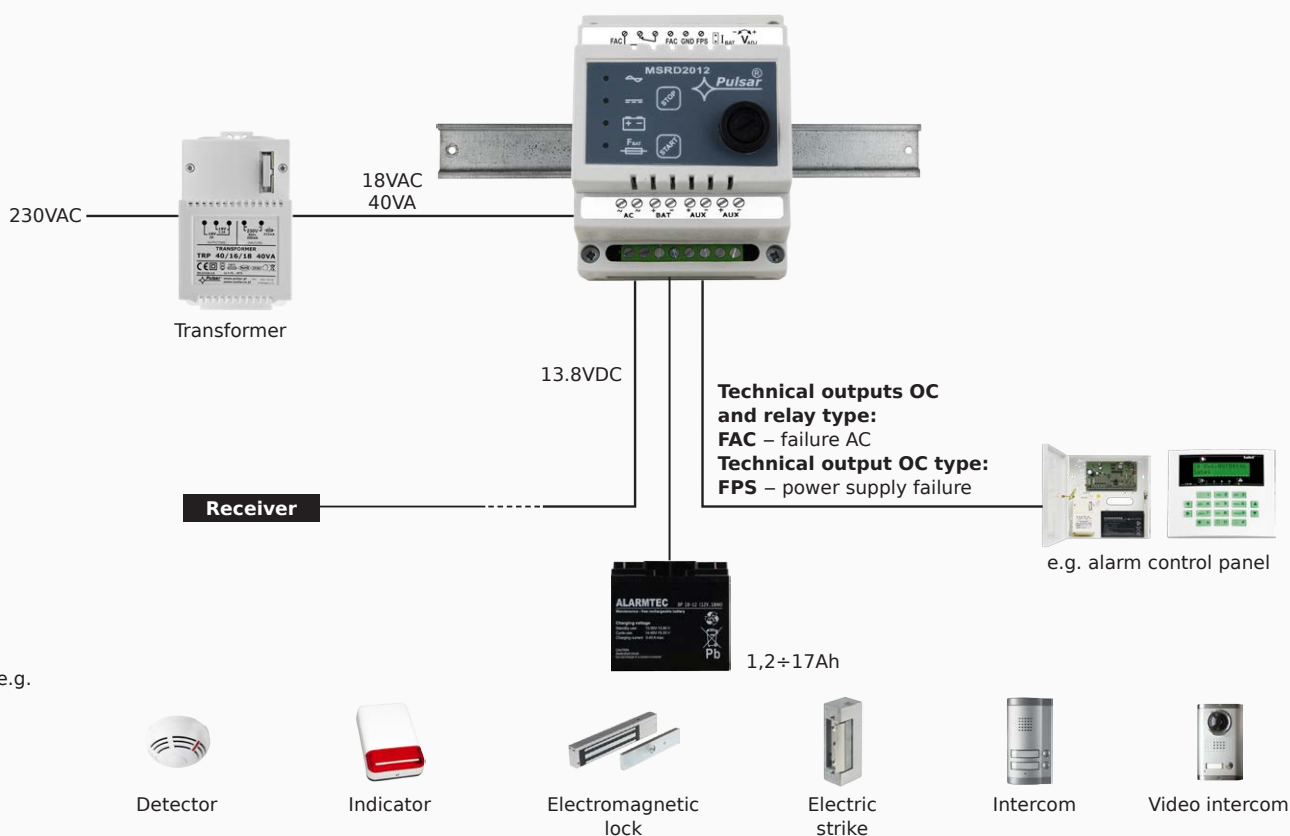
- available models: 13.8VDC / 2A
- supply voltage - external transformer required:  
13.8VDC - AWT150, AWT468
- deep discharge battery protection (UVP)
- battery output short circuit protection and reverse polarity connection
- jumper selectable battery charging current
- battery fuse status control
- START button for battery activation
- STOP button for disconnecting during battery-assisted operation
- FAC technical output indicating AC power collapse - relay and OC type
- FPS technical output indicating PSU failure - OC type
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - surge protection
- warranty: 5 years from production date



Sample product  
**MSRD2012**

| Code            | Output voltage | Total current | Battery charging current | Technical outputs | Deep discharge battery protection | Dimensions W x H x D [mm] |
|-----------------|----------------|---------------|--------------------------|-------------------|-----------------------------------|---------------------------|
| <b>MSRD2012</b> | 13.8VDC        | 2A            | 0.2A / 0.5A              | ✓                 | ✓                                 | 70 x 89 x 69              |

Sample product: MSR2012



# Voltage-lowering converters

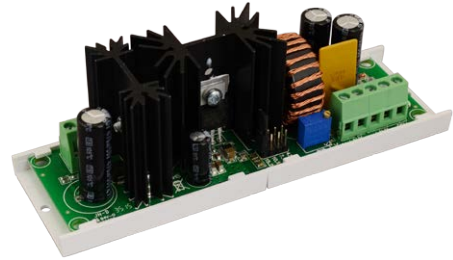
## open frame, with technical output of failure

### DC/DC series

#### Features

- power supply: 8÷28VDC; 28÷60VDC \*
- available models:
  - with adjustable output voltage: 4.5÷19VDC / 1A/2A, 4.5÷24VDC / 3A/5A, 12÷24VDC / 3A/5A \*
  - without adjustment: 12VDC / 5A with galvanic isolation: input / output
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OHP overheat protection \*
- technical output OC type: PSU – converter failure \*
- notes:
  - construction: “open frame”
  - installation: mounting panel with adhesive tape / mounting screws
  - minimum difference between input voltage and output voltage is: 2÷3VDC \*
- warranty: 2 years from production date

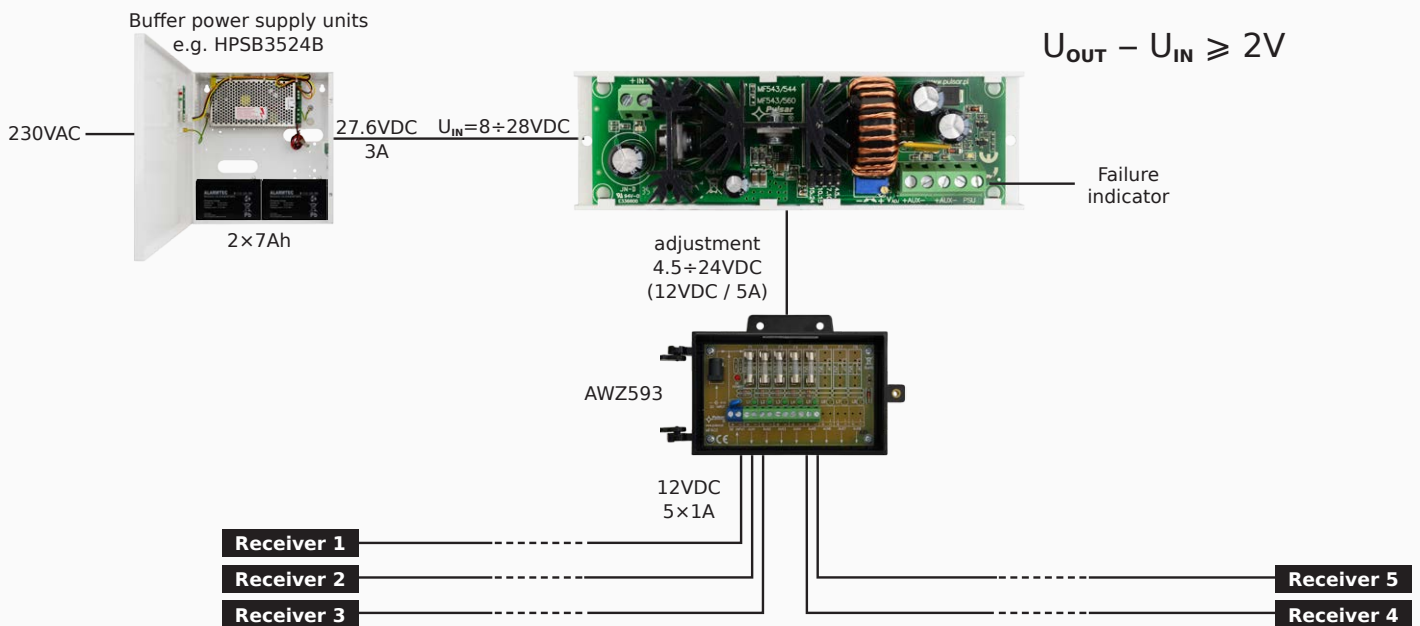
\* depending on model



Sample product  
**DC/DC50SD**

| Code                                    | Input voltage | Output voltage | Output current | Technical output of battery failure | Adjustable output voltage | Dimensions W × H × D [mm] |
|---|---------------|----------------|----------------|-------------------------------------|---------------------------|---------------------------|
| <b>DC/DC10SD</b>                        | 8÷28VDC       | 4,5÷19VDC      | 1A/12VDC       | ✓                                   | ✓                         | 80 × 43 × 27              |
| <b>DC/DC20SD</b>                        |               | 4,5÷19VDC      | 2A/12VDC       | ✓                                   | ✓                         | 100 × 43 × 27             |
| <b>DC/DC30SD</b>                        |               | 4,5÷24VDC      | 3A/12VDC       | ✓                                   | ✓                         | 130 × 43 × 45             |
| <b>DC/DC50SD</b>                        |               | 4,5÷24VDC      | 5A/12VDC       | ✓                                   | ✓                         | 140 × 43 × 45             |
| <b>DC/DC50SD-SEP</b><br>with separation | 20÷28VDC      | 12VDC          | 5A/12VDC       | —                                   | —                         | 150 × 54 × 60             |
| <b>DC/DC30HV</b>                        | 28÷60VDC      | 12÷24VDC       | 3A/12VDC       | ✓                                   | ✓                         | 130 × 43 × 45             |
| <b>DC/DC50HV</b>                        |               | 12÷24VDC       | 5A/12VDC       | ✓                                   | ✓                         | 140 × 43 × 45             |

Sample product: DC/DC50SD



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



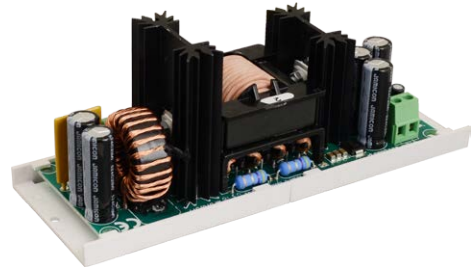
Video intercom

# Voltage lowering and increasing converters open frame, with technical output of failure DC/DC series

## Features

- power supply: 9.5÷16VDC
- available models:
  - with adjustable output voltage: 5÷15VDC / 1A/2A/3A \*
  - without adjustment: 12VDC / 5A
  - without adjustment: 12VDC / 5A with galvanic isolation: input - output
- protections:
  - SCP short circuit protection,
  - OLP overload protection,
  - OHP overheat protection \*
- technical output OC type: PSU - converter failure \*
- notes:
  - construction: "open frame"
  - installation: mounting panel with adhesive tape / mounting screws
- warranty: 2 years from production date

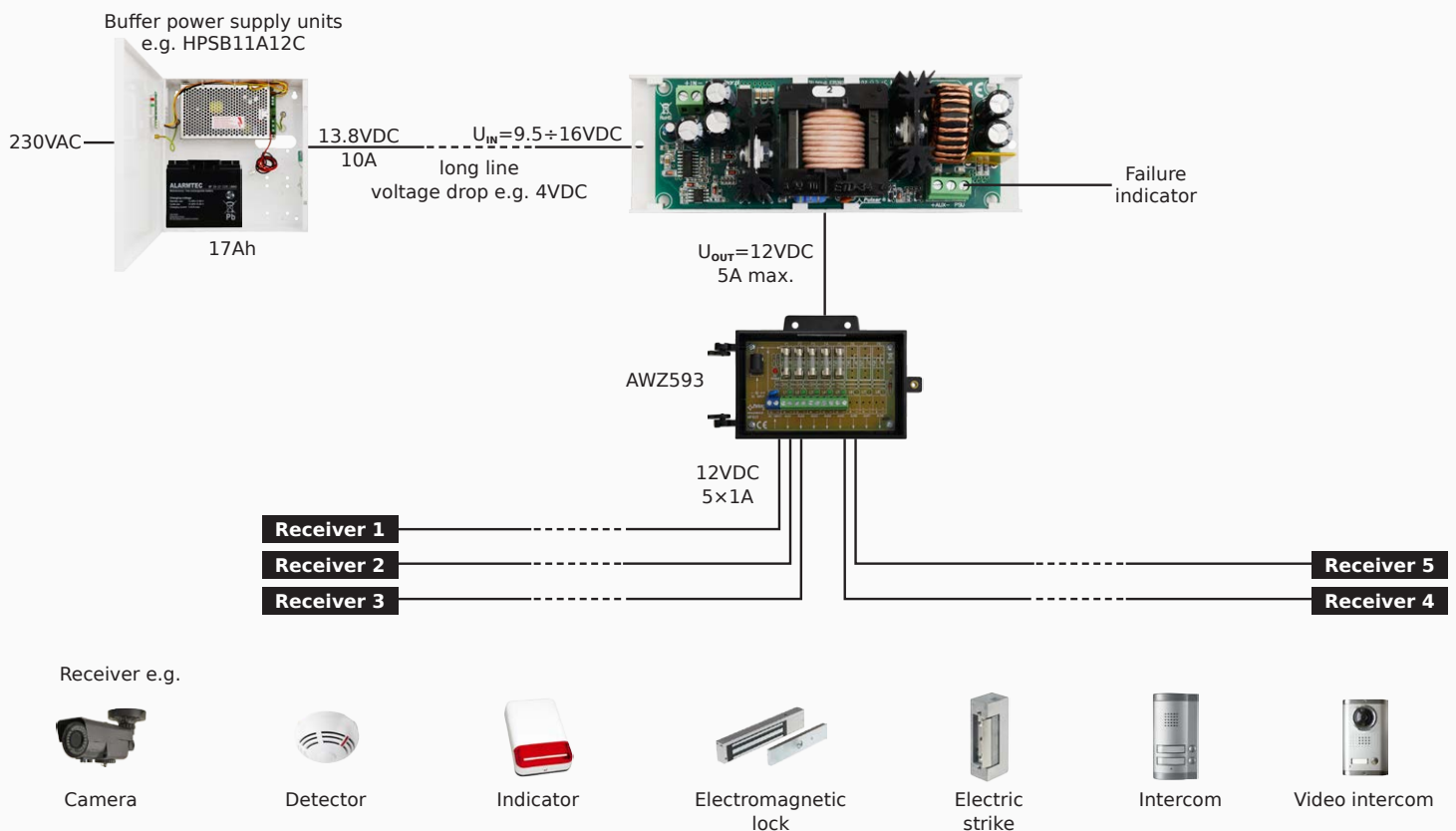
\* depending on model



Sample product  
**DC/DC50SE**

| Code                          | Input voltage | Output voltage | Output current | Technical output of battery failure | Galvanic isolation | Adjustable output voltage | Without adjustable output voltage | Dimensions W x H x D [mm] |
|-------------------------------|---------------|----------------|----------------|-------------------------------------|--------------------|---------------------------|-----------------------------------|---------------------------|
| DC/DC10SE                     | 9.5÷16VDC     | 5÷15VDC        | 1A/12VDC       | ✓                                   | —                  | ✓                         | —                                 | 100 x 43 x 27             |
| DC/DC20SE                     |               | 5÷15VDC        | 2A/12VDC       | ✓                                   | —                  | ✓                         | —                                 | 110 x 43 x 27             |
| DC/DC30SE                     |               | 5÷15VDC        | 3A/12VDC       | ✓                                   | —                  | ✓                         | —                                 | 140 x 43 x 27             |
| DC/DC50SE                     |               | 12VDC          | 5A/12VDC       | ✓                                   | —                  | —                         | ✓                                 | 150 x 50 x 60             |
| DC/DC50SE-SEP with separation |               | 12VDC          | 5A/12VDC       | —                                   | ✓                  | —                         | ✓                                 | 150 x 50 x 60             |

## Sample product: DC/DC50SE



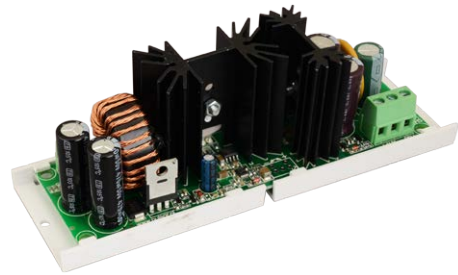
# Voltage-increasing converters

## open frame, with technical output of failure

### DC/DC series

#### Features

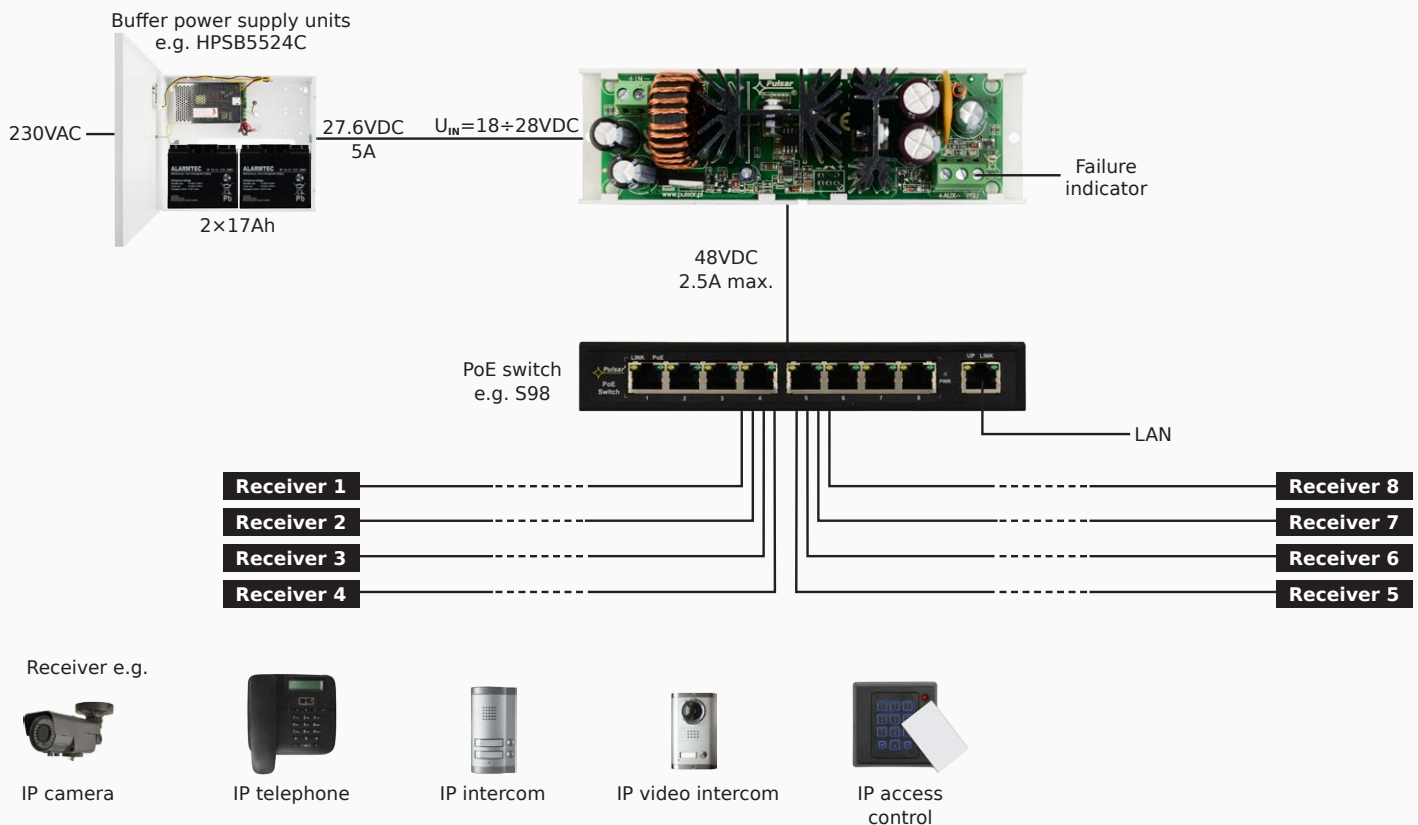
- power supply: 9,5÷16VDC; 18÷28VDC \*
  - available models:
    - with adjustable output voltage: 18÷28VDC / 2.5A
    - without adjustment: 48VDC / 1.25A/2.5A \*
  - protections:
    - SCP short circuit protection,
    - OLP overload protection,
    - OHP overheat protection \*
  - technical output OC type: PSU – converter failure
  - notes:
    - construction: “open frame”
    - installation: mounting panel with an adhesive tape / mounting screws
  - warranty: 2 years from production date
- \* depending on model



Sample product  
**DC/DC48250**

| Code              | Input voltage | Output voltage | Output current | Technical output of battery failure | Adjustable output voltage | Without adjustable output voltage | Dimensions W x H x D [mm] |
|-------------------|---------------|----------------|----------------|-------------------------------------|---------------------------|-----------------------------------|---------------------------|
| <b>DC/DC25SU</b>  | 9,5÷16VDC     | 18÷28VDC       | 2.5A/24VDC     | ✓                                   | ✓                         | —                                 | 140 x 43 x 45             |
| <b>DC/DC48125</b> |               | 48VDC          | 1.25A          | ✓                                   | —                         | ✓                                 | 130 x 43 x 45             |
| <b>DC/DC48250</b> | 18÷28VDC      | 48VDC          | 2.5A           | ✓                                   | —                         | ✓                                 | 140 x 43 x 45             |

Sample product: DC/DC48250



## Voltage reducers - linear

13.8VDC → 12VDC

27.6VDC → 24VDC

### RN series

#### Features

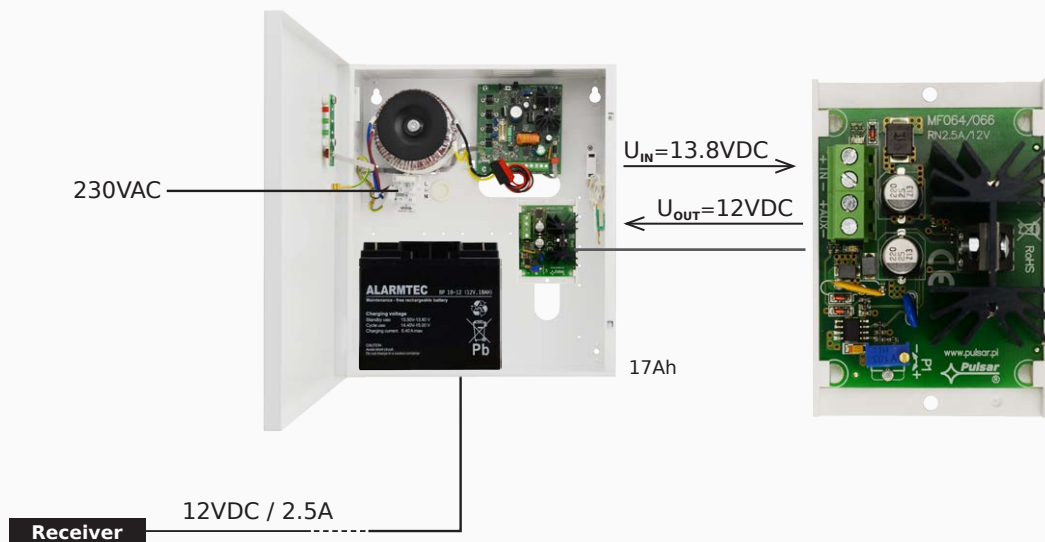
- available models: 12VDC / 2.5A; 5A  
24VDC / 2.5A
- supply voltage: 12÷14VDC for 12V version  
24÷28VDC for 24V version
- voltage adjustment range:  $11V \div U_{IN}$  /  $22V \div U_{IN}$
- linear voltage regulator
- lossless conductivity below stabilisation threshold
- protections:
  - SCP short circuit protection,
  - OLP overload protection
- installation:
  - installation: screws, mounting pins or adhesive tape
- warranty: 2 years from production date



Sample product  
**RN250**

| Code           | Input voltage         | Output voltage (adjustment)  | Output current | Dimensions W × H × D [mm] |
|----------------|-----------------------|------------------------------|----------------|---------------------------|
| <b>RN250</b>   | 13.8VDC<br>(12÷14VDC) | 12V<br>( $11V \div U_{IN}$ ) | 2.5A           | 76 × 54 × 54              |
| <b>RN500</b>   |                       | 12V<br>( $11V \div U_{IN}$ ) | 5A             | 76 × 70 × 45              |
| <b>RN25024</b> | 27.6VDC<br>(24÷28VDC) | 24V<br>( $22V \div U_{IN}$ ) | 2.5A           | 76 × 70 × 45              |

Sample product: RN250



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom

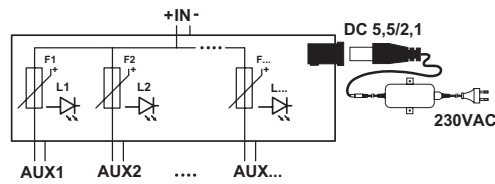


Video intercom



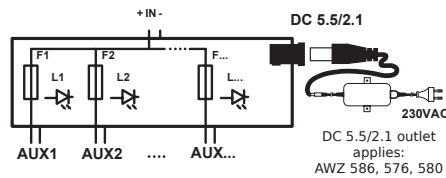
# Fuse modules, security modules

## Fuse type – PTC



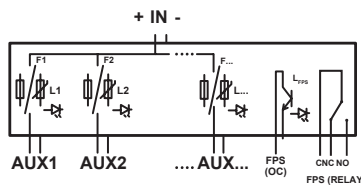
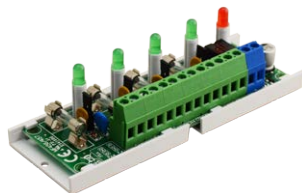
| Code   | Power supply | Number of inputs / outputs | Output protection | Fuse PTC polimer | DC 5.5/2.1 outlet | Dimensions W × H × D [mm] |
|--------|--------------|----------------------------|-------------------|------------------|-------------------|---------------------------|
| AWZ585 | 10÷30VDC     | 2 / 2                      | 2 × 1A            | ✓                | ✓                 | 60 × 43 × 23              |
| AWZ573 |              | 2 / 4                      | 4 × 0.3A          | ✓                | ✓                 | 80 × 43 × 21              |
| AWZ574 |              | 2 / 4                      | 4 × 0.5A          | ✓                | ✓                 | 80 × 43 × 21              |
| AWZ575 |              | 2 / 4                      | 4 × 1A            | ✓                | ✓                 | 80 × 43 × 21              |
| AWZ577 |              | 2 / 8                      | 8 × 0.3A          | ✓                | ✓                 | 124 × 43 × 21             |
| AWZ578 |              | 2 / 8                      | 8 × 0.5A          | ✓                | ✓                 | 124 × 43 × 21             |
| AWZ579 |              | 2 / 8                      | 8 × 1A            | ✓                | ✓                 | 124 × 43 × 21             |

## Fuse type – glass fuse



| Code   | Power supply         | Number of inputs / outputs | Output protection | Fuse glass fuse | DC 5.5/2.1 outlet | Dimensions W × H × D [mm] |
|--------|----------------------|----------------------------|-------------------|-----------------|-------------------|---------------------------|
| AWZ586 | 10÷30VDC             | 2 / 2                      | 2 × 1A            | ✓               | ✓                 | 60 × 43 × 23              |
| AWZ576 |                      | 2 / 4                      | 4 × 0.5A          | ✓               | ✓                 | 80 × 43 × 21              |
| AWZ580 |                      | 2 / 8                      | 8 × 0.5A          | ✓               | ✓                 | 124 × 43 × 21             |
| AWZ597 | 10÷30VDC<br>10÷24VAC | 1 / 2                      | 2 × 2A            | ✓               | —                 | 60 × 43 × 26              |
| AWZ589 | 10÷30VDC             | 1 / 4                      | 4 × 2A            | ✓               | —                 | 80 × 43 × 27              |
| AWZ598 | 10÷30VDC<br>10÷24VAC | 2 / 8                      | 8 × 1.5A          | ✓               | —                 | 144 × 43 × 26             |
| AWZ599 |                      | 1 / 2                      | 2 × 5A            | ✓               | —                 | 75 × 53 × 40              |
| AWZ600 |                      | 2 / 4                      | 4 × 5A            | ✓               | —                 | 150 × 53 × 40             |

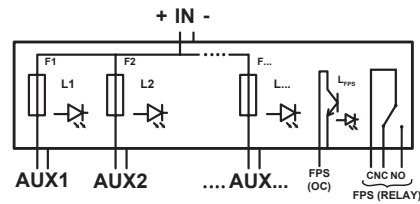
## Modules with technical output of failure – glass fuse / PTC (jumper selectable fuse type)



| Code   | Power supply         | Number of inputs / outputs | Output protection | Fuse        |              | Technical output of failure | Dimensions W × H × D [mm] |
|--------|----------------------|----------------------------|-------------------|-------------|--------------|-----------------------------|---------------------------|
|        |                      |                            |                   | PTC polimer | / glass fuse |                             |                           |
| AWZ535 | 10÷30VDC<br>10÷24VAC | 1 / 4                      | 4 × 0.5A          | ✓           | / ✓          | OC type                     | 125 × 43 × 32             |
| AWZ536 |                      | 1 / 5                      | 5 × 0.5A          | ✓           | / ✓          | OC type                     | 150 × 43 × 29             |
| AWZ588 |                      | 1 / 4                      | 4 × 0.5A          | ✓           | / ✓          | OC type, RELAY type         | 125 × 43 × 32             |

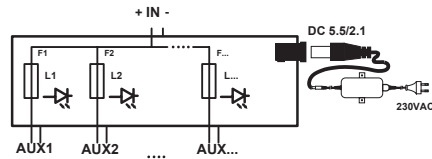
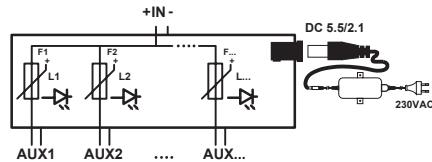
## Fuse modules, security modules

### Junction modules with technical output of failure – glass fuse



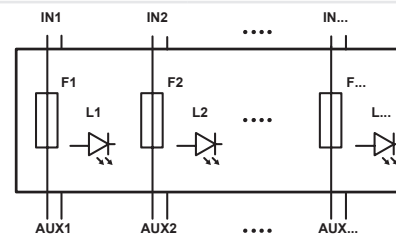
| Code   | Power supply         | Number of inputs / outputs | Output protection | Fuse glass fuse | Technical output of failure | Dimensions W × H × D [mm] |
|--------|----------------------|----------------------------|-------------------|-----------------|-----------------------------|---------------------------|
| AWZ595 | 10÷30VDC<br>10÷24VAC | 1 / 4                      | 4 × 2A            | ✓               | OC type,<br>RELAY type      | 120 × 43 × 26             |
| AWZ596 |                      | 1 / 4                      | 4 × 5A            | ✓               | OC type,<br>RELAY type      | 150 × 53 × 40             |

### Modules in plastic enclosures glass fuse / PTC / without fuse



| Code   | Power supply | Number of inputs / outputs | Output protection | Fuse        |            | DC 5.5/2.1 outlet | Dimensions W × H × D [mm] |
|--------|--------------|----------------------------|-------------------|-------------|------------|-------------------|---------------------------|
|        |              |                            |                   | PTC polimer | glass fuse |                   |                           |
| AWZ594 | 10÷30VDC     | 2 / 5                      | 5 × 1A            | ✓           | —          | ✓                 | 126 × 78+16 × 42          |
| AWZ592 |              | 2 / 8                      | 8 × 1A            | ✓           | —          | ✓                 | 126 × 78+16 × 42          |
| AWZ593 |              | 2 / 5                      | 5 × 1A            | —           | ✓          | ✓                 | 126 × 78+16 × 42          |
| AWZ591 |              | 2 / 8                      | 8 × 1A            | —           | ✓          | ✓                 | 126 × 78+16 × 42          |
| AWZ590 |              | 2 / 8                      | 8 (n/a)           | —           | —          | ✓                 | 126 × 78+16 × 42          |

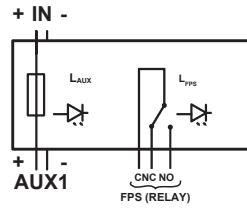
### Straight-through – glass fuse



| Code   | Power supply         | Number of inputs / outputs | Output protection | Fuse glass fuse | Dimensions W × H × D [mm] |
|--------|----------------------|----------------------------|-------------------|-----------------|---------------------------|
| AWZ533 | 10÷30VDC<br>10÷24VAC | 4 / 4                      | 2 × 1.5A          | ✓               | 60 × 43 × 23              |
| AWZ605 |                      | 1 / 1                      | 1 × 5A            | ✓               | 80 × 43 × 21              |
| AWZ606 |                      | 2 / 2                      | 2 × 5A            | ✓               | 80 × 43 × 21              |
| AWZ607 |                      | 4 / 4                      | 4 × 2A            | ✓               | 80 × 43 × 21              |
| AWZ608 |                      | 4 / 4                      | 4 × 5A            | ✓               | 124 × 43 × 21             |

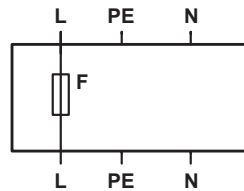
## Fuse modules, security modules

### Straight-through with technical output of failure – glass fuse



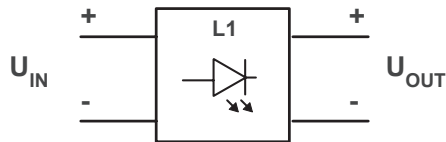
| Code   | Power supply | Number of inputs / outputs | Output protection | Fuse glass fuse | Technical output of failure | Dimensions W × H × D [mm] |
|--------|--------------|----------------------------|-------------------|-----------------|-----------------------------|---------------------------|
| AWZ604 | 10÷24VDC     | 1 / 1                      | 1 × 5A            | ✓               | Type: RELAY                 | 70 × 43 × 40              |

### Straight-through, 230VAC – glass fuse

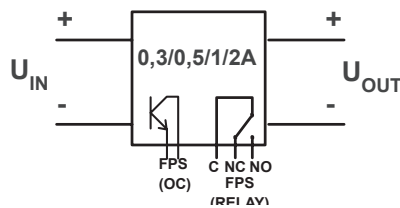


| Code   | Power supply | Number of inputs / outputs | Output protection | Fuse glass fuse | Dimensions W × H × D [mm] |
|--------|--------------|----------------------------|-------------------|-----------------|---------------------------|
| AWZ618 | 230VAC       | 1 / 1                      | 1 × T 3.15A       | ✓               | 60 × 43 × 40              |

### Protection modules



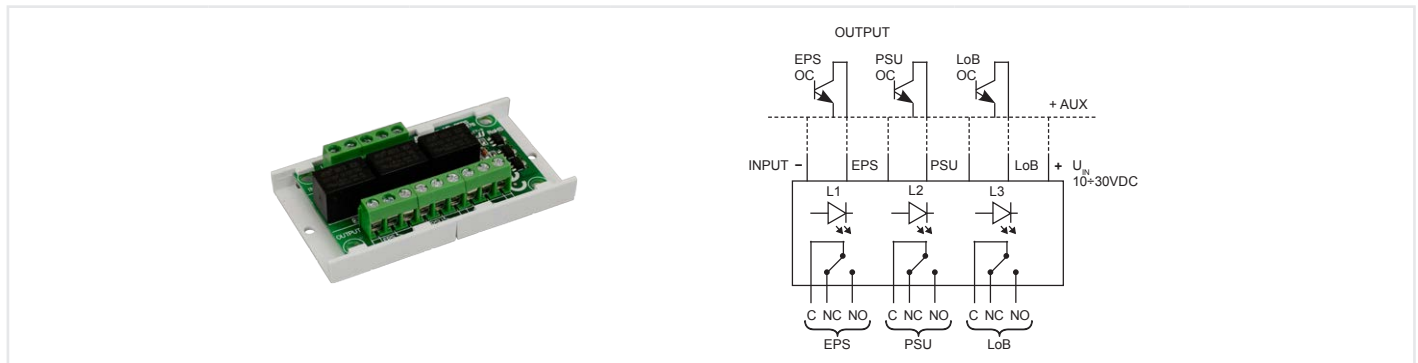
| Code   | $U_{IN}$ power input | $U_{OUT}$ power output | Protection types             | Technical output | Dimensions W × H × D [mm] |
|--------|----------------------|------------------------|------------------------------|------------------|---------------------------|
| AWZ540 | 9÷40VDC              | 9÷14.1VDC              | overvoltage protection - OVP | —                | 50 × 26 × 43              |



| Code   | $U_{IN}$ power input | $U_{OUT}$ power output | Protection types   | Technical output    | Dimensions W × H × D [mm] |
|--------|----------------------|------------------------|--|---------------------|---------------------------|
| AWZ527 | 10÷30VDC             | $U_{OUT} = U_{IN}$     | electronic fuse, short circuit protection - SCP, short-circuit - OLP<br>4 current values can be set: 0.3A / 0.5A / 1A / 2A | OC type, RELAY type | 76 × 54 × 22              |

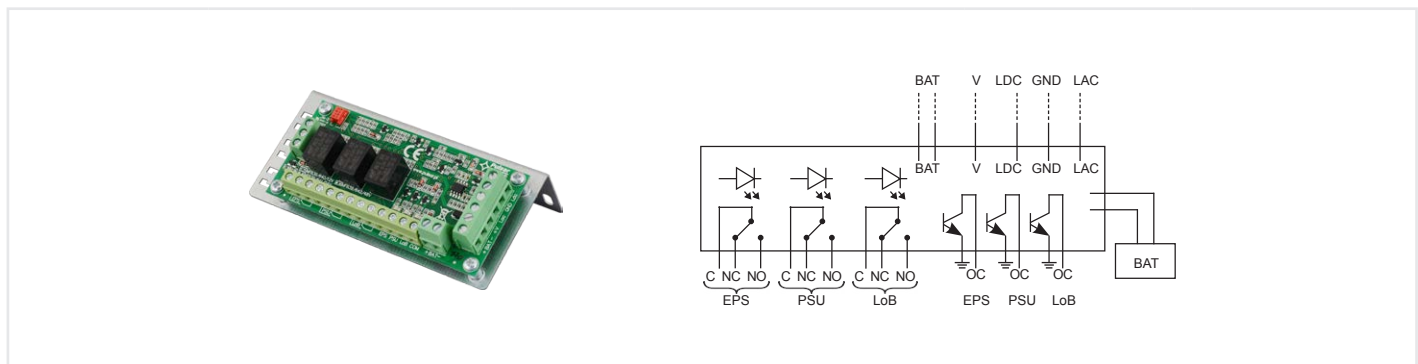
## Relay/automation modules

### Module of technical relay outputs



| Code  | Supply voltage | Control outputs   | Technical outputs - relay type   | Relays                             | Dimensions W × H × D [mm] |
|-------|----------------|-------------------|--|------------------------------------|---------------------------|
| MPSBS | 10÷30VDC       | EPS<br>PSU<br>LoB | EPS - 230V power failure AC<br>PSU - power supply failure<br>LoB - low battery voltage | 3 × REL-C/NO/NC,<br>1A@30VDC/50VAC | 66,5 × 39,5 × 18          |

### Operating automation module

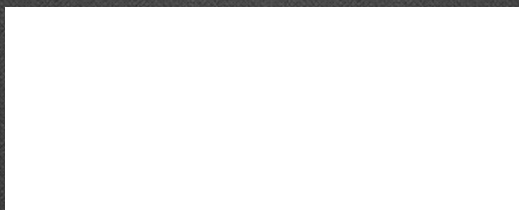


| Code   | Dedicated for power supply units of PSBS / HPSB series with nominal voltage | Technical outputs OC and relay type |                          |                         | Dimensions W × H × D [mm] |
|--------|---|-------------------------------------|--------------------------|-------------------------|---------------------------|
|        |   | EPS power failure                   | PSU power supply failure | LoB low battery voltage |                           |
| MPSB12 | 13.8VDC   | ✓                                   | ✓                        | ✓                       | 127 × 56 × 58             |
| MPSB24 | 27.6VDC   | ✓                                   | ✓                        | ✓                       | 127 × 56 × 58             |
| MPSB48 | 54VDC   | ✓                                   | ✓                        | ✓                       | 127 × 56 × 58             |









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