Buffer power supply units and accessories
Buffer power supply units

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Power converters
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RN series

Modules
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Buffer power supply units 13.8VDC / 27.6VDC / 48VDC / 54VDC
switch mode
HPSB 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,
  - antisabotage protection,
  - OHP overheat protection *
- warranty: 2 years from production date
  * depending on model

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Fitting battery</th>
<th>Dimensions W × H × D [mm]</th>
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<tbody>
<tr>
<td>HPSB1512B</td>
<td>13.8VDC</td>
<td>1.5A</td>
<td>0.5A</td>
<td>7Ah</td>
<td>200 × 230 × 80</td>
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<td>280 × 292 × 80</td>
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<td>11A</td>
<td>1A / 4A</td>
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<td>320 × 350 × 170</td>
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<td>2A / 4A / 8A</td>
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<tr>
<td>HPSB3524B</td>
<td>27.6VDC</td>
<td>3.5A</td>
<td>0.5A / 1A</td>
<td>2 × 7Ah</td>
<td>280 × 292 × 80</td>
</tr>
<tr>
<td>HPSB3524C</td>
<td>27.6VDC</td>
<td>3.5A</td>
<td>0.5A / 1A</td>
<td>2 × 17Ah</td>
<td>400 × 350 × 90</td>
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<tr>
<td>HPSB5524C</td>
<td>27.6VDC</td>
<td>5.5A</td>
<td>0.5A / 2A</td>
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<td>HPSB2548C</td>
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<td>0.5A</td>
<td>2 × 17Ah</td>
<td>400 × 350 × 90</td>
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<td>0.3A</td>
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<td>400 × 350 × 90</td>
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<tr>
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<td>48VDC</td>
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<td>0.5A / 1A</td>
<td>4 × 7Ah</td>
<td>400 × 350 × 90</td>
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<td>HPSB5048C</td>
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<td>5A</td>
<td>0.5A / 1A / 2A</td>
<td>4 × 17Ah</td>
<td>420 × 375 × 182</td>
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</tbody>
</table>

Sample product: HPSB10A24D

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

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**Sample product: HPSB10A24D**

**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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Fitting battery</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPSB1248C</td>
<td>48VDC</td>
<td>1.2A</td>
<td>0.5A</td>
<td>17Ah</td>
<td>280 × 292 × 80</td>
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<tr>
<td>HPSB2548C</td>
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<td>2.5A</td>
<td>0.5A</td>
<td>2 × 17Ah</td>
<td>400 × 350 × 90</td>
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<tr>
<td>HPSB1348B</td>
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<td>1.3A</td>
<td>0.3A</td>
<td>4 × 7Ah</td>
<td>400 × 350 × 90</td>
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<tr>
<td>HPSB2548B</td>
<td>48VDC</td>
<td>2.5A</td>
<td>0.5A / 1A</td>
<td>4 × 7Ah</td>
<td>400 × 350 × 90</td>
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<tr>
<td>HPSB5048C</td>
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<td>5A</td>
<td>0.5A / 1A / 2A</td>
<td>4 × 17Ah</td>
<td>420 × 375 × 182</td>
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</table>

Sample product: HPSB10A24D

**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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Fitting battery</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPSB1248C</td>
<td>48VDC</td>
<td>1.2A</td>
<td>0.5A</td>
<td>17Ah</td>
<td>280 × 292 × 80</td>
</tr>
<tr>
<td>HPSB2548C</td>
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<td>0.5A</td>
<td>2 × 17Ah</td>
<td>400 × 350 × 90</td>
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<td>400 × 350 × 90</td>
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<tr>
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<td>0.5A / 1A</td>
<td>4 × 7Ah</td>
<td>400 × 350 × 90</td>
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<tr>
<td>HPSB5048C</td>
<td>48VDC</td>
<td>5A</td>
<td>0.5A / 1A / 2A</td>
<td>4 × 17Ah</td>
<td>420 × 375 × 182</td>
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</table>
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

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

Sample product: PSDCB09129C

**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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Number of outputs</th>
<th>Battery charging current</th>
<th>Fitting battery</th>
<th>Fuse type</th>
<th>Dimensions W × H × D [mm]</th>
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<tr>
<td>PSDCB05125C</td>
<td>13.8VDC</td>
<td>7A</td>
<td>5 × 1A</td>
<td>1A / 2A</td>
<td>17Ah</td>
<td>1A – glass fuse</td>
<td>285 × 297 × 80</td>
</tr>
<tr>
<td>PSDCB09129C</td>
<td>13.8VDC</td>
<td>11A</td>
<td>9 × 1A</td>
<td>1A / 4A</td>
<td>17Ah</td>
<td>1A – glass fuse</td>
<td>285 × 297 × 80</td>
</tr>
<tr>
<td>PSDCB161220E</td>
<td>13.8VDC</td>
<td>20A</td>
<td>16 × 1.1A</td>
<td>2A / 4A / 8A</td>
<td>65Ah</td>
<td>1A – glass fuse</td>
<td>400 × 350 × 170</td>
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Sample product: PSDCB09129C
Buffer power supply units 13.8VDC / 27.6VDC / 54VDC
switch mode, with technical outputs
HPSBOC 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,
  - antisabotage protection,
  - OHP overheat protection *
• warranty: 2 years from production date
  * depending on model

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Fitting battery</th>
<th>Dimensions W × H × D [mm]</th>
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<td>0.5A</td>
<td>17Ah</td>
<td>285 × 297 × 80</td>
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<td>7A</td>
<td>1A / 2A</td>
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<td>285 × 297 × 80</td>
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<td>2 × 17Ah</td>
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<td>1A / 2A / 4A</td>
<td>2 × 17Ah</td>
<td>400 × 350 × 90</td>
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<td>4 × 7Ah</td>
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<td>5A</td>
<td>0.5A / 1A / 2A</td>
<td>4 × 17Ah</td>
<td>420 × 375 × 182</td>
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</table>

Sample product: HPSBOC3512C

Technical outputs OC and relay type:
EPS – 230V power failure AC
PSU – power supply failure
LoB – low battery voltage

e.g. alarm control panel

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Fitting battery</th>
<th>Dimensions W × H × D [mm]</th>
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<tr>
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<td>0.2A / 0.5A</td>
<td>7Ah</td>
<td>230 × 230 × 80</td>
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<td>PSBS2012B</td>
<td>13.8VDC</td>
<td>2.2A</td>
<td>0.2A / 0.5A</td>
<td>7Ah</td>
<td>230 × 230 × 80</td>
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<td>0.5A / 1A</td>
<td>17Ah</td>
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<td>0.5A / 1A / 2A / 3A</td>
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<td>PSBS5012D</td>
<td>13.8VDC</td>
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<td>0.5A / 1A / 2A / 3A</td>
<td>40Ah</td>
<td>330 × 350 × 170</td>
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<td>PSBS5012E</td>
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<td>0.5A / 1A / 2A / 3A</td>
<td>65Ah</td>
<td>400 × 370 × 170</td>
</tr>
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<td>1A / 2A / 3A / 5A</td>
<td>17Ah</td>
<td>330 × 350 × 100</td>
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<tr>
<td>PSBS10A12D</td>
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<td>1A / 2A / 3A / 5A</td>
<td>40Ah</td>
<td>330 × 350 × 170</td>
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<td>0.2A / 0.5A</td>
<td>2 × 7Ah</td>
<td>260 × 300 × 90</td>
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<td>2 × 17Ah</td>
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<tr>
<td>PSBS5024C</td>
<td>27.6VDC</td>
<td>5.5A</td>
<td>0.5A / 1A / 2A / 3A</td>
<td>2 × 17Ah</td>
<td>400 × 350 × 90</td>
</tr>
</tbody>
</table>

Sample product: PSBS3012C

Technical outputs OC type:
EPS – 230V power failure AC
PSU – power supply failure
LoB – low battery voltage

e.g. alarm control panel

[Images and diagrams of receiver, battery, and various security devices]
Buffer power supply units 13.8VDC
linear
AWZ series

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

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

Sample product: AWZ300
Buffer power supply units 13.8VDC / 27.6VDC
linear, compliant with EN50131-6 standard for alarm systems
AWZ plus series

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Fitting battery</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWZ110</td>
<td>13.8VDC</td>
<td>1A</td>
<td>0.4A</td>
<td>7Ah</td>
<td>200 × 230 × 82</td>
</tr>
<tr>
<td>AWZ230</td>
<td>13.8VDC</td>
<td>2A</td>
<td>0.4A / 0.9A</td>
<td>7Ah</td>
<td>230 × 230 × 92</td>
</tr>
<tr>
<td>AWZ222</td>
<td>13.8VDC</td>
<td>2A</td>
<td>0.4A / 0.9A</td>
<td>17Ah</td>
<td>230 × 300 × 92</td>
</tr>
<tr>
<td>AWZ333</td>
<td>27.6VDC</td>
<td>3A</td>
<td>0.4A / 0.9A</td>
<td>17Ah</td>
<td>230 × 300 × 92</td>
</tr>
<tr>
<td>AWZ224</td>
<td>27.6VDC</td>
<td>2A</td>
<td>0.4A</td>
<td>2 × 7Ah</td>
<td>230 × 300 × 92</td>
</tr>
</tbody>
</table>

Sample product: AWZ333

Technical outputs OC type:
• EPS – 230V power failure AC
• PSU – power supply failure
• APS – battery failure

Receiver e.g.
- Camera
- Detector
- Indicator
- Electromagnetic lock
- Electric strike
- Intercom
- Video intercom

Compliant with EN50131-6 standard for alarm systems
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

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

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

MTP Gold Medal
Securex 2014
<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Fitting battery</th>
<th>Display types</th>
<th>Output current for general purpose application</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSBEN2012B</td>
<td>13.8VDC</td>
<td>7Ah</td>
<td>LED</td>
<td>2A</td>
</tr>
<tr>
<td>PSBEN3012C</td>
<td>17Ah</td>
<td>LED</td>
<td>3A</td>
<td></td>
</tr>
<tr>
<td>PSBEN3012C/LCD</td>
<td>17Ah</td>
<td>LCD</td>
<td>3A</td>
<td></td>
</tr>
<tr>
<td>PSBEN5012C</td>
<td>17Ah</td>
<td>LED</td>
<td>5A</td>
<td></td>
</tr>
<tr>
<td>PSBEN5012C/LCD</td>
<td>17Ah</td>
<td>LCD</td>
<td>5A</td>
<td></td>
</tr>
<tr>
<td>PSBEN5012D</td>
<td>40Ah</td>
<td>LED</td>
<td>5A</td>
<td></td>
</tr>
<tr>
<td>PSBEN5012D/LCD</td>
<td>40Ah</td>
<td>LCD</td>
<td>5A</td>
<td></td>
</tr>
<tr>
<td>PSBEN5012E</td>
<td>65Ah</td>
<td>LED</td>
<td>5A</td>
<td></td>
</tr>
<tr>
<td>PSBEN10A12D</td>
<td>40Ah</td>
<td>LED</td>
<td>10A</td>
<td></td>
</tr>
<tr>
<td>PSBEN10A12D/LCD</td>
<td>40Ah</td>
<td>LCD</td>
<td>10A</td>
<td></td>
</tr>
<tr>
<td>PSBEN10A12E</td>
<td>65Ah</td>
<td>LED</td>
<td>10A</td>
<td></td>
</tr>
<tr>
<td>PSBEN10A12E/LCD</td>
<td>65Ah</td>
<td>LCD</td>
<td>10A</td>
<td></td>
</tr>
<tr>
<td>PSBEN2024B</td>
<td>27.6VDC</td>
<td>2×7Ah</td>
<td>LED</td>
<td>2A</td>
</tr>
<tr>
<td>PSBEN3024C/LCD</td>
<td>2×17Ah</td>
<td>LCD</td>
<td>3A</td>
<td></td>
</tr>
<tr>
<td>PSBEN5024C</td>
<td>2×17Ah</td>
<td>LED</td>
<td>5A</td>
<td></td>
</tr>
<tr>
<td>PSBEN5024C/LCD</td>
<td>2×17Ah</td>
<td>LCD</td>
<td>5A</td>
<td></td>
</tr>
</tbody>
</table>

* 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

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 E2To
- 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
<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Fitting battery</th>
<th>Total current</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>for continuous operation – $I_{\text{o}} + I_{\text{load}}$</td>
</tr>
<tr>
<td>EN54-2A17</td>
<td>27.6VDC</td>
<td>2×17Ah</td>
<td>1A + 1A</td>
</tr>
<tr>
<td>EN54-3A17</td>
<td></td>
<td>2×17Ah</td>
<td>2A + 1A</td>
</tr>
<tr>
<td>EN54-3A28</td>
<td></td>
<td>2×28Ah</td>
<td>1.5A + 1.5A</td>
</tr>
<tr>
<td>EN54-5A17</td>
<td></td>
<td>2×17Ah</td>
<td>4A + 1A</td>
</tr>
<tr>
<td>EN54-5A28</td>
<td></td>
<td>2×28Ah</td>
<td>3.5A + 1.5A</td>
</tr>
<tr>
<td>EN54-5A40</td>
<td></td>
<td>2×40Ah</td>
<td>3A + 2A</td>
</tr>
<tr>
<td>EN54-7A17</td>
<td></td>
<td>2×17Ah</td>
<td>6A + 1A</td>
</tr>
<tr>
<td>EN54-7A28</td>
<td></td>
<td>2×28Ah</td>
<td>5.5A + 1.5A</td>
</tr>
<tr>
<td>EN54-7A40</td>
<td></td>
<td>2×40Ah</td>
<td>5A + 2A</td>
</tr>
</tbody>
</table>

With microprocessor-based operating control and LED display

With microprocessor-based operating control and graphic LCD display

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Fitting battery</th>
<th>Total current</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>for continuous operation – $I_{\text{o}} + I_{\text{load}}$</td>
</tr>
<tr>
<td>EN54-2A17LCD</td>
<td>27.6VDC</td>
<td>2×17Ah</td>
<td>1A + 1A</td>
</tr>
<tr>
<td>EN54-3A17LCD</td>
<td></td>
<td>2×17Ah</td>
<td>2A + 1A</td>
</tr>
<tr>
<td>EN54-3A28LCD</td>
<td></td>
<td>2×28Ah</td>
<td>1.5A + 1.5A</td>
</tr>
<tr>
<td>EN54-5A17LCD</td>
<td></td>
<td>2×17Ah</td>
<td>4A + 1A</td>
</tr>
<tr>
<td>EN54-5A28LCD</td>
<td></td>
<td>2×28Ah</td>
<td>3.5A + 1.5A</td>
</tr>
<tr>
<td>EN54-5A40LCD</td>
<td></td>
<td>2×40Ah</td>
<td>3A + 2A</td>
</tr>
<tr>
<td>EN54-7A17LCD</td>
<td></td>
<td>2×17Ah</td>
<td>6A + 1A</td>
</tr>
<tr>
<td>EN54-7A28LCD</td>
<td></td>
<td>2×28Ah</td>
<td>5.5A + 1.5A</td>
</tr>
<tr>
<td>EN54-7A40LCD</td>
<td></td>
<td>2×40Ah</td>
<td>5A + 2A</td>
</tr>
</tbody>
</table>

Free program “PowerSecurity” also available for Android
## Fuse modules for power supply units of EN54 series

### EN54-LB4

LD4/0.5A/FTA fuse module EN54

### EN54-LB8

LB8/0.5A/FTA fuse module EN54

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

**INTR** – Interface RS485-TTL
- Destination: connection of PSU of PSBEN or EN54 series with RS485
- Power supply: 5VDC / max. 30mA from "SERIAL" socket of power supply unit
- Galvanic separation between RS485 and TTL interfaces

**INTE** – Interface ETHERNET
- Destination: Power supplies of PSBEN or EN54 series are connected with ETHERNET network
- Power supply: 5VDC / max. 0.95W from “SERIAL" socket of power supply unit
- Assigning static or dynamic IP address (DHCP server)
- Permission of Scientific and Research Centre for Fire Protection – National Research Institute for use with power supplies of EN54 series in fire alarm systems

**INTW** – Interface Wi-Fi
- Destination: Connecting power supply unit of PSBEN or EN54 series with Wi-Fi network
- Power supply: 5VDC / max.210mA from “SERIAL" socket of power supply unit
- Assigning static or dynamic IP address (DHCP server)
- Permission of Scientific and Research Centre for Fire Protection – National Research Institute for use with power supplies of EN54 series in fire alarm systems

**INTU** – Interface USB-TTL
- Destination: Power supplies of PSBEN or EN54 series are locally connected to computer via USB port
- Power supply: 5VDC / max. 25mA from computer’s USB port
- Compliance of USB interface: USB1.1 / USB 2.0 (Full Speed)
- Transmission’s speed: max. 115200 bauds, with parity check

**INTC** – Programmer
- Destination: WiFi interface configuration: INTW, INTRW
- Power supply: 5VDC / max. 25mA from computer’s USB port
- Compliance of USB interface: USB1.1 / USB 2.0 (Full Speed)
- Transmission’s speed: max. 115200 bauds, with parity check

**INTRE** – Interface RS485-ETHERNET
- Destination: Device to convert signals between RS485 and ETHERNET network
- Power supply: 10÷30VDC / max.0.95W
- Assigning static or dynamic IP address (DHCP server)
- Permission of Scientific and Research Centre for Fire Protection – National Research Institute for use with power supplies of EN54 series in fire alarm systems

**INTRW** – Interface RS485-Wi-Fi
- Destination: Device to convert signals between RS485 and Wi-Fi network
- Power supply: 10÷30VDC / 80÷20mA
- Assigning static or dynamic IP address (DHCP server)
- Permission of Scientific and Research Centre for Fire Protection – National Research Institute for use with power supplies of EN54 series in fire alarm systems

**INTUR** – Interface USB-RS485
- Destination: Data conversion from RS485 to PC via USB port
- Power supply: 5VDC / max. 25mA via USB port
- Compliance of USB interface: USB1.1 / USB 2.0 (Full Speed)
- Transmission’s speed: max. 115200 bauds, with parity check

**ANT1** – 2.4GHz WiFi Antenna with Magnetic Base
- Destination: Omnidirectional antenna is designed for operation in 2.4GHz WiFi band
- Frequency / Impedance: 2.4GHz / 50 Ohm
- VSWR / Energy gain: <2.0 / 5dBi
- Polarization: Vertical
- Cable: length 1.5m / SMA-RP/U.FL plug
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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Fitting battery</th>
<th>Dimensions W x H x D [mm]</th>
<th>Number of cable glands / Ø cables</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSBSH1012A</td>
<td>13.8VDC</td>
<td>1A</td>
<td>0.2A</td>
<td>1.2Ah</td>
<td>160 x 160 x 90</td>
<td>2 pieces / 4÷8mm</td>
</tr>
<tr>
<td>PSBSH1012B</td>
<td></td>
<td>1A</td>
<td>0.2A / 0.5A</td>
<td>7Ah</td>
<td>185 x 265 x 95</td>
<td>2 pieces / 4÷8mm</td>
</tr>
<tr>
<td>PSBSH2012B</td>
<td></td>
<td>2A</td>
<td>0.2A / 0.5A</td>
<td>7Ah</td>
<td>185 x 265 x 95</td>
<td>2 pieces / 4÷8mm</td>
</tr>
</tbody>
</table>

Sample product: PSBSH2012B

Sample product

PSBSH2012B

230VAC

13.8VDC

7Ah

**Technical outputs OC type:**
- EPS – 230V power failure AC
- PSU – power supply failure
- LoB – low battery voltage

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

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

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

Sample product: RUPS812T

Sample product: RUPS812T

Detachable power socket
LED indication

230VAC

13.8VDC
8 × 1A

1 × 7÷28Ah

Receiver 1  
Receiver 2  
Receiver 3  
Receiver 4  
Receiver 5  
Receiver 6  
Receiver 7  
Receiver 8

Receiver e.g.

Camera
Detector
Indicator
Electromagnetic lock
Electric strike
Intercom
Video intercom
Buffer power supply units – 1-output 13.8VDC / 27.6VDC / 54VDC
with glass fuse
ROUPS series

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

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

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

---

Sample product: ROUPS12V

**Sample product: ROUPS12V**

- Battery terminals
- Detachable power socket
- Failure output
- 230VAC
- 13.8VDC / 18A
- 1 × 17–65Ah
- Fuse strip RLB16
- Receiver e.g.
- Camera
- Detector
- Indicator
- Electromagnetic lock
- Electric strike
- Intercom
- Video intercom

www.pulsar.pl | 17
Fuses strip 8 / 16 outputs dedicated for power supply units of ROUPS series RLB series

**Features**
- power supply: \( U_{IN} = 10 \div 56 \text{VDC} \)
- available models: \( U_{OUT} = U_{IN} / 8 \times 2 \text{A (max.)} \)
  \( U_{OUT} = U_{IN} / 16 \times 1 \text{A (max.)} \)
- number of outputs x fuse: \( 8 \times 2 \text{A} / 16 \times 1 \text{A} * \)
- 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Fuse</th>
<th>Input voltage ( U_{IN} )</th>
<th>Output voltage ( U_{OUT} )</th>
<th>Number of outputs</th>
<th>Fuse type</th>
<th>Technical output</th>
<th>Mounting dimensions ( W \times H \times D ) [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLB8</td>
<td>glass fuse</td>
<td>10÷56VDC</td>
<td>( U_{OUT} = U_{IN} )</td>
<td>8 x 2A (max.)</td>
<td>2A – glass fuse</td>
<td>✓</td>
<td>19” × 2U 482 × 88 × 74</td>
</tr>
<tr>
<td>RLB16</td>
<td>glass fuse</td>
<td>10÷56VDC</td>
<td>( U_{OUT} = U_{IN} )</td>
<td>16 x 1A (max.)</td>
<td>1A – glass fuse</td>
<td>✓</td>
<td>19” × 2U 482 × 88 × 74</td>
</tr>
</tbody>
</table>

Sample product: RLB16

- Battery terminals
- Detachable power socket
- 230VAC
- Failure output
- 13.8VDC / 18A
- 1 x 17÷65Ah
- Fuse strip RLB16
- 13.8VDC / 16 outputs
- Receiver 16
- 13.8VDC / 16 outputs
- Receiver 1

Sample product

Sample product: RLB16

- Receiver e.g.
  - Camera
  - Detector
  - Indicator
  - Electromagnetic lock
  - Electric strike
  - Intercom
  - Video intercom

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Fuse</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Number of outputs</th>
<th>Battery charging current</th>
<th>Fuse type</th>
<th>Technical output</th>
<th>Mounting dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROUPS12VR</td>
<td>glass fuse</td>
<td>12VDC</td>
<td>6A</td>
<td>1 × 5A</td>
<td>1A (1 × 7÷28Ah)</td>
<td>5A – glass fuse</td>
<td>✓</td>
<td>19” × 2U</td>
</tr>
</tbody>
</table>

ROUPS12VR

Socket DVR
Failure output

Receiver e.g.
Recorder DVR 12VDC

230VAC
LED indication
uninterruptible power supply of the DVR 12VDC / 5A
Battery controllers: 12VDC / 24VDC / 48VDC for buffer power supply units - RACK 19”
RCB, RC series

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Fuse type</th>
<th>Output voltage</th>
<th>Current (max.)</th>
<th>Fitting battery</th>
<th>Maximum total capacity</th>
<th>Technical output of alarm</th>
<th>Mounting dimensions W×H×D</th>
<th>Dimensions W×H×D [±2mm]</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCB12V</td>
<td>1× glass fuse – 25A</td>
<td>13.8VDC</td>
<td>20A</td>
<td>4×17Ah</td>
<td>✓</td>
<td>19”×2U×425</td>
<td>483 × 88 × 425</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>RCB24V</td>
<td>1× glass fuse – 15A</td>
<td>27.6VDC</td>
<td>10A</td>
<td>4×17Ah</td>
<td>✓</td>
<td>19”×2U×425</td>
<td>483 × 88 × 425</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>RCB48V</td>
<td>1× glass fuse – 7.5A</td>
<td>54VDC</td>
<td>5A</td>
<td>4×17Ah</td>
<td>✓</td>
<td>19”×2U×425</td>
<td>483 × 88 × 425</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>RC12V</td>
<td>1× glass fuse – 25A</td>
<td>13.8VDC</td>
<td>20A</td>
<td>n/a</td>
<td>✓</td>
<td>19”×2U×60</td>
<td>483 × 88 × 60</td>
<td>battery cables included</td>
<td></td>
</tr>
<tr>
<td>RC24V</td>
<td>1× glass fuse – 15A</td>
<td>27.6VDC</td>
<td>10A</td>
<td>n/a</td>
<td>✓</td>
<td>19”×2U×60</td>
<td>483 × 88 × 60</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>RC48V</td>
<td>1× glass fuse – 7.5A</td>
<td>54VDC</td>
<td>5A</td>
<td>n/a</td>
<td>✓</td>
<td>19”×2U×60</td>
<td>483 × 88 × 60</td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DINB13810</td>
<td>13.8VDC</td>
<td>1.5A</td>
<td>0.5A</td>
<td>122 × 93 × 50</td>
</tr>
<tr>
<td>DINB13820</td>
<td>13.8VDC</td>
<td>2.5A</td>
<td>0.5A</td>
<td>122 × 93 × 50</td>
</tr>
<tr>
<td>DINB13830</td>
<td>13.8VDC</td>
<td>3.5A</td>
<td>0.5A</td>
<td>122 × 93 × 50</td>
</tr>
<tr>
<td>DINB13850</td>
<td>13.8VDC</td>
<td>5.5A</td>
<td>0.5A</td>
<td>122 × 93 × 60</td>
</tr>
<tr>
<td>DINB27610</td>
<td>27.6VDC</td>
<td>1.2A</td>
<td>0.2A</td>
<td>122 × 93 × 50</td>
</tr>
<tr>
<td>DINB27620</td>
<td>27.6VDC</td>
<td>2.2A</td>
<td>0.2A</td>
<td>122 × 93 × 50</td>
</tr>
<tr>
<td>DINB27630</td>
<td>27.6VDC</td>
<td>3.2A</td>
<td>0.2A</td>
<td>122 × 93 × 60</td>
</tr>
</tbody>
</table>

Sample product: DINB13830

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Dimensions L × W × H [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSB-251215</td>
<td>13.8VDC</td>
<td>1.5A</td>
<td>0.5A</td>
<td>110 × 78 × 36</td>
</tr>
<tr>
<td>PSB-351225</td>
<td>13.8VDC</td>
<td>2.5A</td>
<td>0.5A</td>
<td>129 × 98 × 40.5</td>
</tr>
<tr>
<td>PSB-501235</td>
<td>13.8VDC</td>
<td>3.5A</td>
<td>0.5A</td>
<td>159 × 97 × 42</td>
</tr>
<tr>
<td>PSB-751250</td>
<td>13.8VDC</td>
<td>5A</td>
<td>0.5A</td>
<td>159 × 97 × 42</td>
</tr>
<tr>
<td>PSB-1001270</td>
<td>13.8VDC</td>
<td>7A</td>
<td>1A / 2A</td>
<td>199 × 97 × 42</td>
</tr>
<tr>
<td>PSB-15512110</td>
<td>27.6VDC</td>
<td>11A</td>
<td>1A / 4A</td>
<td>199 × 110 × 50</td>
</tr>
<tr>
<td>PSB-30012200</td>
<td>27.6VDC</td>
<td>20A</td>
<td>2A / 4A / 8A</td>
<td>275 × 115 × 50</td>
</tr>
<tr>
<td>PSB-502418</td>
<td>27.6VDC</td>
<td>1.8A</td>
<td>0.3A</td>
<td>159 × 97 × 42</td>
</tr>
<tr>
<td>PSB-1002435</td>
<td>27.6VDC</td>
<td>3.5A</td>
<td>0.5A / 1A</td>
<td>199 × 97 × 42</td>
</tr>
<tr>
<td>PSB-1552455</td>
<td>27.6VDC</td>
<td>9.5A</td>
<td>0.5A / 2A</td>
<td>199 × 110 × 50</td>
</tr>
<tr>
<td>PSB-30024100</td>
<td>54VDC</td>
<td>10A</td>
<td>1A / 2A / 4A</td>
<td>275 × 115 × 50</td>
</tr>
<tr>
<td>PSB-754813</td>
<td>54VDC</td>
<td>1.3A</td>
<td>0.3A</td>
<td>159 × 97 × 42</td>
</tr>
<tr>
<td>PSB-1554828</td>
<td>54VDC</td>
<td>2.8A</td>
<td>0.5A / 1A</td>
<td>199 × 97 × 50</td>
</tr>
<tr>
<td>PSB-3004850</td>
<td>54VDC</td>
<td>5A</td>
<td>0.5A / 1A / 2A</td>
<td>275 × 115 × 50</td>
</tr>
</tbody>
</table>

Sample product
PSB-1001270

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

![Sample product PSB-1001270](image)

Table: Output voltage, Total current, Battery charging current, Dimensions L × W × H [mm]

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Dimensions L × W × H [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSB-251215</td>
<td>13.8VDC</td>
<td>1.5A</td>
<td>0.5A</td>
<td>110 × 78 × 36</td>
</tr>
<tr>
<td>PSB-351225</td>
<td>13.8VDC</td>
<td>2.5A</td>
<td>0.5A</td>
<td>129 × 98 × 40.5</td>
</tr>
<tr>
<td>PSB-501235</td>
<td>13.8VDC</td>
<td>3.5A</td>
<td>0.5A</td>
<td>159 × 97 × 42</td>
</tr>
<tr>
<td>PSB-751250</td>
<td>13.8VDC</td>
<td>5A</td>
<td>0.5A</td>
<td>159 × 97 × 42</td>
</tr>
<tr>
<td>PSB-1001270</td>
<td>13.8VDC</td>
<td>7A</td>
<td>1A / 2A</td>
<td>199 × 97 × 42</td>
</tr>
<tr>
<td>PSB-15512110</td>
<td>27.6VDC</td>
<td>11A</td>
<td>1A / 4A</td>
<td>199 × 110 × 50</td>
</tr>
<tr>
<td>PSB-30012200</td>
<td>27.6VDC</td>
<td>20A</td>
<td>2A / 4A / 8A</td>
<td>275 × 115 × 50</td>
</tr>
<tr>
<td>PSB-502418</td>
<td>27.6VDC</td>
<td>1.8A</td>
<td>0.3A</td>
<td>159 × 97 × 42</td>
</tr>
<tr>
<td>PSB-1002435</td>
<td>27.6VDC</td>
<td>3.5A</td>
<td>0.5A / 1A</td>
<td>199 × 97 × 42</td>
</tr>
<tr>
<td>PSB-1552455</td>
<td>27.6VDC</td>
<td>9.5A</td>
<td>0.5A / 2A</td>
<td>199 × 110 × 50</td>
</tr>
<tr>
<td>PSB-30024100</td>
<td>54VDC</td>
<td>10A</td>
<td>1A / 2A / 4A</td>
<td>275 × 115 × 50</td>
</tr>
<tr>
<td>PSB-754813</td>
<td>54VDC</td>
<td>1.3A</td>
<td>0.3A</td>
<td>159 × 97 × 42</td>
</tr>
<tr>
<td>PSB-1554828</td>
<td>54VDC</td>
<td>2.8A</td>
<td>0.5A / 1A</td>
<td>199 × 97 × 50</td>
</tr>
<tr>
<td>PSB-3004850</td>
<td>54VDC</td>
<td>5A</td>
<td>0.5A / 1A / 2A</td>
<td>275 × 115 × 50</td>
</tr>
</tbody>
</table>

Sample product: PSB-1001270

![Sample product PSB-1001270](image)
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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Technical outputs</th>
<th>Dimensions L x W x H [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSBOC351225</td>
<td>13.8VDC</td>
<td>2.5A</td>
<td>0.5A</td>
<td>✓</td>
<td>129 × 98 × 63.5</td>
</tr>
<tr>
<td>PSBOC501235</td>
<td>13.8VDC</td>
<td>3.5A</td>
<td>0.5A</td>
<td>✓</td>
<td>159 × 97 × 65</td>
</tr>
<tr>
<td>PSBOC751250</td>
<td>13.8VDC</td>
<td>5A</td>
<td>0.5A</td>
<td>✓</td>
<td>159 × 97 × 65</td>
</tr>
<tr>
<td>PSBOC1001270</td>
<td>13.8VDC</td>
<td>7A</td>
<td>1A / 2A</td>
<td>✓</td>
<td>199 × 97 × 65</td>
</tr>
<tr>
<td>PSBOC15512110</td>
<td>13.8VDC</td>
<td>11A</td>
<td>1A / 4A</td>
<td>✓</td>
<td>199 × 110 × 73</td>
</tr>
<tr>
<td>PSBOC20012200</td>
<td>13.8VDC</td>
<td>20A</td>
<td>2A / 4A / 8A</td>
<td>✓</td>
<td>275 × 115 × 73</td>
</tr>
<tr>
<td>PSBOC1002435</td>
<td>54VDC</td>
<td>3.5A</td>
<td>0.5A / 1A</td>
<td>✓</td>
<td>199 × 97 × 65</td>
</tr>
<tr>
<td>PSBOC1552455</td>
<td>54VDC</td>
<td>5.5A</td>
<td>0.5A / 2A</td>
<td>✓</td>
<td>199 × 110 × 73</td>
</tr>
<tr>
<td>PSBOC30024100</td>
<td>54VDC</td>
<td>10A</td>
<td>1A / 2A / 4A</td>
<td>✓</td>
<td>275 × 115 × 73</td>
</tr>
<tr>
<td>PSBOC754813</td>
<td>54VDC</td>
<td>1.3A</td>
<td>0.3A</td>
<td>✓</td>
<td>159 × 97 × 65</td>
</tr>
<tr>
<td>PSBOC1554828</td>
<td>54VDC</td>
<td>2.8A</td>
<td>0.5A / 1A</td>
<td>✓</td>
<td>199 × 110 × 73</td>
</tr>
<tr>
<td>PSBOC3004850</td>
<td>54VDC</td>
<td>5A</td>
<td>0.5A / 1A / 2A</td>
<td>✓</td>
<td>275 × 115 × 73</td>
</tr>
</tbody>
</table>

Accessories
PSDLIN1 – Bracket DIN/PS/PSB1
PSDLIN2 – Bracket DIN/PS/PSB2

Sample product: PSBOC1001270

Technical outputs OC and relay type:
EPS – 230V power failure AC
PSU – power supply failure
LoB – low battery voltage

e.g. alarm control panel

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Technical outputs</th>
<th>Deep discharge battery protection</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS1012</td>
<td>13.8VDC</td>
<td>1.2A</td>
<td>0.2A / 0.5A</td>
<td>—</td>
<td>—</td>
<td>74.5 × 53 × 25</td>
</tr>
<tr>
<td>MS2012</td>
<td>13.8VDC</td>
<td>2.2A</td>
<td>0.2A / 0.5A</td>
<td>—</td>
<td>—</td>
<td>74.5 × 55 × 40</td>
</tr>
<tr>
<td>MSR1012</td>
<td>13.8VDC</td>
<td>1.2A</td>
<td>0.2A / 0.5A</td>
<td>✓</td>
<td>—</td>
<td>85 × 58 × 25</td>
</tr>
<tr>
<td>MSR2012</td>
<td>27.6VDC</td>
<td>2.2A</td>
<td>0.2A / 0.5A</td>
<td>✓</td>
<td>—</td>
<td>85 × 63 × 40</td>
</tr>
<tr>
<td>MSRK1012</td>
<td>27.6VDC</td>
<td>1.2A</td>
<td>0.2A / 0.5A</td>
<td>✓</td>
<td>✓</td>
<td>86 × 58 × 25</td>
</tr>
<tr>
<td>MSRK2012</td>
<td>27.6VDC</td>
<td>2.2A</td>
<td>0.2A / 0.5A</td>
<td>✓</td>
<td>✓</td>
<td>86 × 63 × 40</td>
</tr>
<tr>
<td>MSRK3012</td>
<td>27.6VDC</td>
<td>3.5A</td>
<td>0.5A / 1A</td>
<td>✓</td>
<td>✓</td>
<td>88 × 93 × 55</td>
</tr>
<tr>
<td>MSRK1024</td>
<td>27.6VDC</td>
<td>1A</td>
<td>0.2A / 0.5A</td>
<td>✓</td>
<td>—</td>
<td>86 × 63 × 35</td>
</tr>
<tr>
<td>MSRK2024</td>
<td>27.6VDC</td>
<td>2.2A</td>
<td>0.2A / 0.5A</td>
<td>✓</td>
<td>✓</td>
<td>88 × 93 × 43</td>
</tr>
<tr>
<td>MSRK3024</td>
<td>27.6VDC</td>
<td>3.5A</td>
<td>0.5A / 1A</td>
<td>✓</td>
<td>✓</td>
<td>105 × 143 × 44</td>
</tr>
</tbody>
</table>

Sample product: MSRK3012

Technical outputs OC type:
EPS – AC power failure
PSU – power supply failure
LoB – output indicating battery low voltage
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

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

Sample product: MLRK1012

Receiver e.g.
- Camera
- Detector
- Indicator
- Electromagnetic lock
- Electric strike
- Intercom
- Video intercom

Technical output of relay type: FAC – AC power failure
e.g. alarm control panel

1.2÷7Ah
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

<table>
<thead>
<tr>
<th>Code</th>
<th>Output voltage</th>
<th>Total current</th>
<th>Battery charging current</th>
<th>Technical outputs</th>
<th>Deep discharge battery protection</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSRD2012</td>
<td>13.8VDC</td>
<td>2A</td>
<td>0.2A / 0.5A</td>
<td>✓</td>
<td>✓</td>
<td>70 × 89 × 69</td>
</tr>
</tbody>
</table>

Sample product: MSRD2012

Technical outputs OC and relay type:
FAC – failure AC
Technical output OC type:
FPS – power supply failure

e.g. alarm control panel

Camera  Detector  Indicator  Electromagnetic lock  Electric strike  Intercom  Video intercom

Receiver e.g.
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

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

Sample product: DC/DC50SD

Sample product: DC/DC50SD

Buffer power supply units
e.g. HPSB3524B

U_{OUT} - U_{IN} ≥ 2V

AWZ593

Failure indicator

Adjustment
4.5÷24VDC
(12VDC / 5A)

Receiver e.g.

Camera
Detector
Indicator
Electromagnetic lock
Electric strike
Intercom
Video intercom

www.pulsar.pl | 27
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

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

Sample product: DC/DC50SE

Buffer power supply units e.g. HPSB11A12C

230VAC — 17Ah

13.8VDC 10A
U_in = 9.5÷16VDC
long line voltage drop e.g. 4VDC

U_out = 12VDC 5A max.

Receiver e.g.

Camera
Detector
Indicator
Electromagnetic lock
Electric strike
Intercom
Video intercom

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Input voltage</th>
<th>Output voltage</th>
<th>Output current</th>
<th>Technical output of battery failure</th>
<th>Adjustable output voltage</th>
<th>Without adjustable output voltage</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC/DC25SU</td>
<td>9.5÷16VDC</td>
<td>18÷28VDC</td>
<td>2.5A/24VDC</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>140 × 43 × 45</td>
</tr>
<tr>
<td>DC/DC48125</td>
<td>48VDC</td>
<td>1.25A</td>
<td></td>
<td>✓</td>
<td>–</td>
<td>✓</td>
<td>130 × 43 × 45</td>
</tr>
<tr>
<td>DC/DC48250</td>
<td>18÷28VDC</td>
<td>48VDC</td>
<td>2.5A</td>
<td>✓</td>
<td>–</td>
<td>✓</td>
<td>140 × 43 × 45</td>
</tr>
</tbody>
</table>

Sample product: DC/DC48250

Sample product: DC/DC48250

Buffer power supply units
e.g. HPS5524C

230VAC

27.6VDC

5A

2×17Ah

48VDC

2.5A max.

PoE switch
e.g. S98

Receiver 1
Receiver 2
Receiver 3
Receiver 4
Receiver 5
Receiver 6
Receiver 7
Receiver 8

Failure indicator

LAN

IP camera
IP telephone
IP intercom
IP video intercom
IP access control

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+U\textsubscript{IN} / 22V+U\textsubscript{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

<table>
<thead>
<tr>
<th>Code</th>
<th>Input voltage</th>
<th>Output voltage (adjustment)</th>
<th>Output current</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>RN250</td>
<td>13.8VDC (12÷14VDC)</td>
<td>12V (11V+U\textsubscript{IN})</td>
<td>2.5A</td>
<td>76 × 54 × 54</td>
</tr>
<tr>
<td>RN500</td>
<td>12V (11V+U\textsubscript{IN})</td>
<td>5A</td>
<td></td>
<td>76 × 70 × 45</td>
</tr>
<tr>
<td>RN25024</td>
<td>27.6VDC (24÷28VDC)</td>
<td>24V (22V+U\textsubscript{IN})</td>
<td>2.5A</td>
<td>76 × 70 × 45</td>
</tr>
</tbody>
</table>

Sample product: RN250

Receiver e.g.
Camera  Detector  Indicator  Electromagnetic lock  Electric strike  Intercom  Video intercom
Fuse modules, security modules

Fuse type – PTC

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

Fuse type – glass fuse

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Power supply</th>
<th>Number of inputs / outputs</th>
<th>Output protection</th>
<th>Fuse PTC polimer / glass fuse</th>
<th>Technical output of failure</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWZ535</td>
<td>10÷30VDC</td>
<td>1 / 4</td>
<td>4 × 0.5A</td>
<td>✓ / ✓</td>
<td>OC type</td>
<td>125 × 43 × 32</td>
</tr>
<tr>
<td>AWZ536</td>
<td>10÷30VDC</td>
<td>1 / 5</td>
<td>5 × 0.5A</td>
<td>✓ / ✓</td>
<td>OC type</td>
<td>150 × 43 × 29</td>
</tr>
<tr>
<td>AWZ588</td>
<td>10÷30VDC</td>
<td>1 / 4</td>
<td>4 × 0.5A</td>
<td>✓ / ✓</td>
<td>OC type, RELAY type</td>
<td>125 × 43 × 32</td>
</tr>
</tbody>
</table>
Fuse modules, security modules

Junction modules with technical output of failure – glass fuse

![Image of junction modules]

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

Modules in plastic enclosures glass fuse / PTC / without fuse

![Image of modules in plastic enclosures]

<table>
<thead>
<tr>
<th>Code</th>
<th>Power supply</th>
<th>Number of inputs / outputs</th>
<th>Output protection</th>
<th>Fuse glass fuse</th>
<th>Technical output of failure</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWZ594</td>
<td>10÷30VDC</td>
<td>1 / 4</td>
<td>5 × 1A</td>
<td>✓</td>
<td>OC type, RELAY type</td>
<td>126 × 78+16 × 42</td>
</tr>
<tr>
<td>AWZ592</td>
<td>10÷24VAC</td>
<td>1 / 4</td>
<td>8 × 1A</td>
<td>✓</td>
<td>OC type, RELAY type</td>
<td>126 × 78+16 × 42</td>
</tr>
<tr>
<td>AWZ593</td>
<td>10÷30VDC</td>
<td>2 / 5</td>
<td>5 × 1A</td>
<td>✓</td>
<td>RELAY type</td>
<td>126 × 78+16 × 42</td>
</tr>
<tr>
<td>AWZ591</td>
<td>10÷24VAC</td>
<td>2 / 8</td>
<td>8 × 1A</td>
<td>✓</td>
<td>RELAY type</td>
<td>126 × 78+16 × 42</td>
</tr>
<tr>
<td>AWZ590</td>
<td>10÷30VDC</td>
<td>2 / 8</td>
<td>8 (n/a)</td>
<td>✓</td>
<td>RELAY type</td>
<td>126 × 78+16 × 42</td>
</tr>
</tbody>
</table>

Straight-through – glass fuse

![Image of straight-through modules]

<table>
<thead>
<tr>
<th>Code</th>
<th>Power supply</th>
<th>Number of inputs / outputs</th>
<th>Output protection</th>
<th>Fuse glass fuse</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWZ533</td>
<td>10÷30VDC</td>
<td>4 / 4</td>
<td>2 × 1.5A</td>
<td>✓</td>
<td>60 × 43 × 23</td>
</tr>
<tr>
<td>AWZ605</td>
<td>10÷24VAC</td>
<td>1 / 1</td>
<td>1 × 5A</td>
<td>✓</td>
<td>80 × 43 × 21</td>
</tr>
<tr>
<td>AWZ606</td>
<td>10÷30VDC</td>
<td>2 / 2</td>
<td>2 × 5A</td>
<td>✓</td>
<td>80 × 43 × 21</td>
</tr>
<tr>
<td>AWZ607</td>
<td>10÷24VAC</td>
<td>4 / 4</td>
<td>4 × 2A</td>
<td>✓</td>
<td>80 × 43 × 21</td>
</tr>
<tr>
<td>AWZ608</td>
<td>10÷30VDC</td>
<td>4 / 4</td>
<td>4 × 5A</td>
<td>✓</td>
<td>124 × 43 × 21</td>
</tr>
</tbody>
</table>
Fuse modules, security modules

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

![Fuse module diagram]

<table>
<thead>
<tr>
<th>Code</th>
<th>Power supply</th>
<th>Number of inputs / outputs</th>
<th>Output protection</th>
<th>Fuse glass fuse</th>
<th>Technical output of failure</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWZ604</td>
<td>10÷24VDC</td>
<td>1 / 1</td>
<td>1 × 5A</td>
<td>✓</td>
<td>Type: RELAY</td>
<td>70 × 43 × 40</td>
</tr>
</tbody>
</table>

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

![Fuse module diagram]

<table>
<thead>
<tr>
<th>Code</th>
<th>Power supply</th>
<th>Number of inputs / outputs</th>
<th>Output protection</th>
<th>Fuse glass fuse</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWZ618</td>
<td>230VAC</td>
<td>1 / 1</td>
<td>1 × T 3.15A</td>
<td>✓</td>
<td>60 × 43 × 40</td>
</tr>
</tbody>
</table>

**Protection modules**

![Protection module diagram]

<table>
<thead>
<tr>
<th>Code</th>
<th>$U_{IN}$ power input</th>
<th>$U_{OUT}$ power output</th>
<th>Protection types</th>
<th>Technical output</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWZ540</td>
<td>9÷40VDC</td>
<td>9÷14.1VDC</td>
<td>overvoltage protection – OVP</td>
<td>—</td>
<td>50 × 26 × 43</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>$U_{IN}$ power input</th>
<th>$U_{OUT}$ power output</th>
<th>Protection types</th>
<th>Technical output</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWZ527</td>
<td>10÷30VDC</td>
<td>$U_{OUT} = U_{IN}$</td>
<td>electronic fuse, short circuit protection – SCP, short-circuit – OLP</td>
<td>OC type, RELAY type</td>
<td>76 × 54 × 22</td>
</tr>
</tbody>
</table>
Module of technical relay outputs

<table>
<thead>
<tr>
<th>Code</th>
<th>Supply voltage</th>
<th>Control outputs</th>
<th>Technical outputs - relay type</th>
<th>Relays</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPSBS</td>
<td>10÷30VDC</td>
<td>EPS PSU LoB</td>
<td>EPS – 230V power failure AC PSU – power supply failure LoB – low battery voltage</td>
<td>3x REL-C/NO/NC, 1A@30VDC/50VAC</td>
<td>66.5 × 39.5 × 18</td>
</tr>
</tbody>
</table>

Operating automation module

<table>
<thead>
<tr>
<th>Code</th>
<th>Dedicated for power supply units of PSBS / HPSB series with nominal voltage</th>
<th>Technical outputs OC and relay type</th>
<th>Dimensions W × H × D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPSB12</td>
<td>13.8VDC</td>
<td>✓</td>
<td>127 × 56 × 58</td>
</tr>
<tr>
<td>MPSB24</td>
<td>27.6VDC</td>
<td>✓</td>
<td>127 × 56 × 58</td>
</tr>
<tr>
<td>MPSB48</td>
<td>54VDC</td>
<td>✓</td>
<td>127 × 56 × 58</td>
</tr>
</tbody>
</table>
Contact us

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