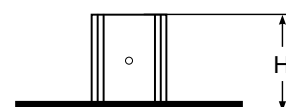
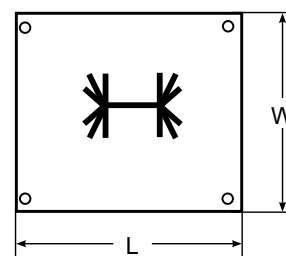
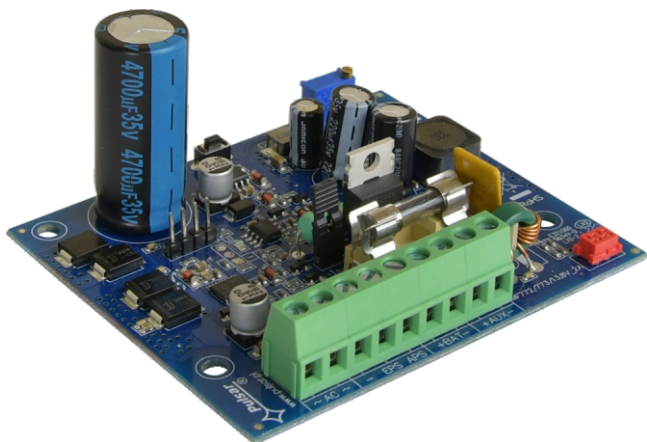


CODE: **MSRK** v.2.0/I
TYPE: **The module of buffer power supply Grade 2**

EN



Features:

- built-in power supply module
- compliance with norm EN50131-6:2017 in grade 1, 2 and II environment class
- compliance with norm EN60839-11:2013 in grade 1, 2 and II environment class
- DC 13,8 V uninterruptible power supply
- available versions with current efficiencies:
 - **13,8 V: 2 A/3 A**
- microprocessor-based automation system
- dynamic battery test
- battery circuit continuity control
- battery voltage control
- battery fuse status control
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- battery output protection against short circuit and reverse connection
- battery charging current jumper selectable
- START function of manual switch to battery power
- LED optical indication
- EPS technical output of network loss - OC type
- APS technical output indicating battery failure - OC type
- optional module AWZ639 changing OC outputs into relay outputs
- additional accessories: set of LED optical indication PKAZ168
- protections:
 - SCP short-circuit protection
 - OLP overload protection
- warranty – 5 years from the production date

Description

Buffer power supply modules is designed in accordance with the requirements of the (I&HAS) EN50131-6:2017 and (Access Control) EN60839-11:2013 standard, grade 1, 2 and II environmental class. The power supplies units are intended for an uninterrupted supply of I&HAS and Access Control devices requiring stabilized voltage of 12 V DC ($\pm 15\%$).

DISPLAYING PARAMETERS OF THE MODULES:

| Modules name | Output voltage | Output current max. |
|-----------------|----------------|---------------------|
| MSRK2012 | 13,8 V | 2 A |
| MSRK3012 | 27,6 V | 3 A |

Total current of the receivers + battery charging current mustn't cross maximum current of power supply.

| TECHNICAL DATA | MSRK2012 | MSRK3012 |
|---|--|-----------------------|
| PSU type: | A (EPS - External Power Source), protection class 1–2, II environmental class | |
| Power supply: | ~ 20-22 V; min. 50 VA | ~ 20-22 V; min. 80 VA |
| Output voltage: | 11 - 13,8 V – buffer operation 10 - 13,8 V – battery-assisted operation | |
| Voltage adjustment range: | 13 – 14 V | |
| Current consumption by PSU during battery – assisted operation: | 11 mA | 10 mA |
| Low battery voltage indication: | U _{bat} < 11,5 V, during battery operation | |
| Battery circuit protection SCP and reverse polarity connection: | F _{BAT} fuse (in case of a failure, fuse-element replacement required) | |
| Deep discharge battery protection UVP: | U < 10 V (± 0,5V) – disconnection of battery terminal | |
| Technical outputs: | | |
| EPS; output indicating AC power failure | OC type: 50mA max. normal status: L (0V) level, failure: hi-Z level | |
| APS; output indicating battery failure | OC type: 50mA max. normal status: L (0V) level, failure: hi-Z level | |
| Optical indication: | LEDs on PCB of power supply unit optionally additional LED optical indication | |
| Operating conditions: | II environmental class (PN-EN12101-10:2007), -10°C ÷ 40°C | |
| Operating temperature: | -10°C...+40°C | |
| Storage temperature: | -20°C...+60°C | |
| Vibrations and impulse waves during transport: | Wg PN-83/T-42106 | |
| Fixing: | Mounting pins x 4 (PCB fi=4,2 mm) | |
| Declarations, warranty: | CE, 5 years from production date | |
| Notes: | Convexional cooling | |