

## APPLICATION

MZB floating mode power supplies are used for supplying guaranteed voltage to devices:

- Access control
- CCTV
- Intrusion and hold up alarm systems
- Other devices requiring voltage maintenance in the event of a power outage from the power grid

The solutions used in the power supply are characterized by very low quiescent power for their own needs, which significantly extends the operating time of powered devices in battery mode.

**MZB power supplies were made in accordance with the requirements of the latest version of the standard EN 50131-6 (grade 1 and 2).**



## CHARACTERISTICS

- wide range of mains voltage 85 ... 264 Vac, 120 ... 373 Vdc
- very low quiescent power: <15 mA
- 13.8 V stable output voltage with adjustable range 12...14,2 V
- two independent and protected outputs
- battery charging and maintenance control
- two levels of battery charging current limitation: 0.5 A or 1 A - selection by a jumper
- possibility to start the PSU from batteries - "cold start" function
- battery protection against too deep discharge - can be blocked by a jumper
- LED signalling
- technical outputs: low battery voltage (LoB), power outage or damage to the power supply (EPS)
- output protection against short circuit or reverse battery connection
- output overvoltage protection - no need for additional systems to power access control, CCTV and Intrusion and hold up alarm systems devices
- protection: short circuit, overload, overvoltage and tamper
- metal cabinet closed with screws

## VERSIONS

Version	Output voltage	Max output current	I <sub>out max</sub> + I <sub>load</sub>	Space for battery	I <sub>out max</sub> *	Dimensions (W x H x D) [mm]	Weight
MZB-212-07	13,8 V	2 A	1,5 A + 0,5 A or 1 A + 1 A	7 Ah / 12 V	0,58 A	160 x 200 x 85+8	1,2 kg
MZB-212-17	13,8 V	2 A	1,5 A + 0,5 A or 1 A + 1 A	17 Ah / 12 V	1,41 A	230 x 230 x 90+8	1,6 kg
MZB-312-17	13,8 V	3 A	2,5 A + 0,5 A or 2 A + 1 A	17 Ah / 12 V	1,41 A	230 x 230 x 90+8	1,6 kg
MZB-412-17	13,8 V	4 A	3,5 A + 0,5 A or 3 A + 1 A	17 Ah / 12 V	1,41 A	230 x 230 x 90+8	1,6 kg

\*) in supervision mode for Grade 2

**Note: For compliance with EN 50131-1, the floating voltage must be set to 13.8 V to meet the requirement that the battery is charged to 80% capacity in 72 hours.**

## TECHNICAL PARAMETERS

Rated input voltage	184...253 Vac 50 Hz
Nominal input current	1,0 A
Leakage current in the protective conductor	max 0,75 mA
Battery and output voltage <ul style="list-style-type: none"><li>• rated voltage and voltage in the floating mode</li><li>• low battery indication (LoB output)</li><li>• disconnection voltage of the discharged battery (LVD Jumper in the "ON" position)</li></ul>	13,8 V 11,2 V 10,2 V
Battery capacity	7 Ah or 17 Ah
Battery consumption for the PSU's own needs - PSU outputs unloaded / after LVD disconnection	9 mA / 3 mA
Tamper	50 mA @12 Vdc
OC type signaling outputs (2 outputs available: PSU * and LoB)	max 50 mA
Operating temperature	-10...40°C
Storage temperature (recommended)	5...40°C
Relative humidity (non-condensing)	20...90%
Protection class EN 60950-1	I
Ingress protection EN 60529	IP 20

\*) Has a lack of mains signal delay in accordance with the requirements of EN 50130-4

## MANUFACTURER

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ISO 9001 and 14001 certified

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The manufacturer reserves the right to make changes without notice

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