ZSP100R

The ZSP100 power supplies are a source of uninterruptible 24V voltage to the devices of:

- fire indication according to the standard EN 54-4 + A1 + A2
- heat and smoke control according to the standard EN 12101-10:2007
- fire protection acc. to Ordinance of the Polish Minister of the Internal Affairs and Administration of 20 June 2007 (Journal of Laws No. 143, pos. 1002, as amended of 27 April 2010 Journal od Laws No. 85, pos. 553)





The internal power modules ZSPM-75 and ZSPM-150 hold the Certificate of constancy of parameters according to CNBOP 1438-CPR-0486, which enables to provide power to the systems requiring a certified power source. The requirements of EN 54-4 are met if the cabinet including the ZSP100R power supply has a protection degree of at least IP30.

MAIN FEATURES

- high efficiency under load and low power consumption for own needs
- two outputs, protected separately with fuses
- possibility to connect a module with additional outputs
- bulk charging with current limitation suitable for battery capacity
- temperature compensation of floating operation voltage and bulk charging
- LVD

- battery circuit resistance measurement
- immunity against short circuit of battery input
- immunity to reverse battery polarity connection
- two relay indication outputs each with a set of 3 contacts
- external alarm input
- wide range of working temperatures

EQUIPMENT

- metal 2U high cassette, holding a battery bank (for batteries of over 20Ah it is necessary to use external cassette)
- LED indication of the operation of the power supply: mains and fault
- remote indication: mains fault and general fault (three relay contacts for each)
- overloading protection of output and battery circuits
- internal LVD
- external alarm input
- temperature sensor
- additional LED indication inside the power supply for diagnostic purposes

COMPLIANCE WITH SAFETY REQUIREMENTS, DIRECTIVES, EU REGULATIONS

- 2014/35/UE [LVD] Low voltage electrical devices.
- 2014/30/UE [EMC] EMC Compatibility.
- 305/2011 UE [CPR] Harmonised conditions for marketing of construction products.
- 2011/65/UE [RoHS 2] Requirements for the restriction of the use of certain hazardous substances.





BASIC PARAMETERS

Common Parameters

Nominal mains voltage	110V / 230V +10% -15%	
Nominal output voltage (in the temperature of 25°C)	27,1V	
Output voltage range *)	21,028,8V	
Quiescent current consumption from a battery	max 17mA	
Mains consumption when battery charged and without loads	~ 1,7W	
Effieciency at nominal load and battery charged	89%	
Max. resistance of the battery circuit	250mΩ	
Number of supervised batteries	2	
Number of outputs protected with separate fuses	2	
Working temperature	-25+55°C	
Protection degree of EN 60529:2003	IP 20	
Functional class of EN 12101-10	A	
Environmental class of EN 12101-10	1 (IP00)	
Protection class of EN 60950-1	1	

*) The range includes voltage between the discharged battery voltage (at the end of the battery operation cycle) and the bulk charging voltage.

Individual parameters

Index	Maximum output current Imax b	Nominal output current Imax a	Battery capacity	Dimensions (2U 19") W x H x D [mm]	Weight without battery
ZSP100R-2.5A-09	2,5A	2,1A	2 x 9Ah	482,6 x 88 x 300	5,2kg
ZSP100R-2.5A-18	2,5A	1,7A	2 x 18Ah	482,6 x 88 x 368,5	6,1kg
ZSP100R-5.5A-09	5,5A	5,1A	2 x 9Ah	482,6 x 88 x 300	5,2kg
ZSP100R-5.5A-18	5,5A	4,7A	2 x 18Ah	482,6 x 88 x 368,5	6,1kg
ZSP100R-5.5A-00 *	5,5A	3,8A	2 x 1745Ah	482,6 x 88 x 144	3,1kg

*) The batteries should be installed outside of the power supply's casing. They should be enclosed in the 19" rack-mountable AKU cassettes supplied by the MERAWEX company.

Batteries for the ZSP100R Power Supplies should be ordered separately.

SUGGESTED ADDITIONAL ACCESSORIES

Output Extension Module ZSP100-OUT6, including six, fuse protected additional outputs. Each of them has the LED indication of faults. The module transmits information on faults to the main power supply.

Exemplary order

Power supply for fire protection signaling and automation ZSP100R-2.5A-182 pcs.Battery 12V/18Ah4 pcs.Module ZSP100-OUT62 pcs.



MANUFACTURER

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