

MSRD series power supply module

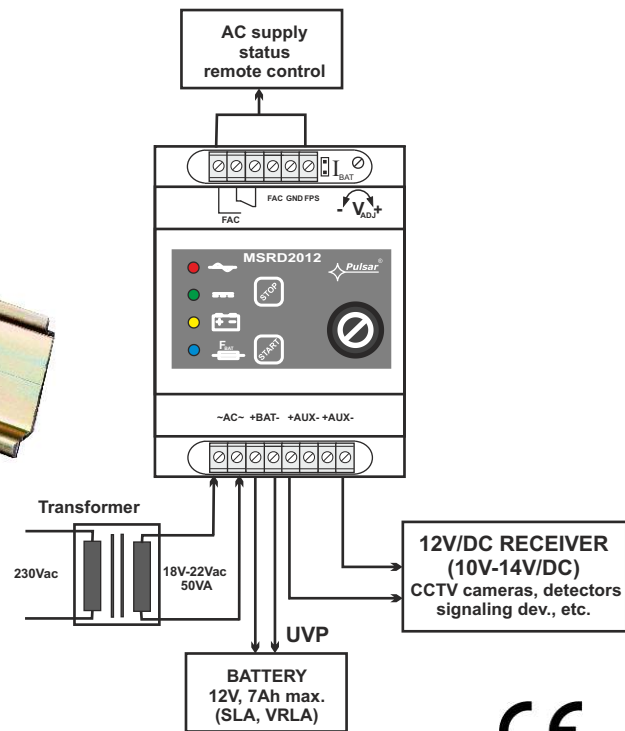
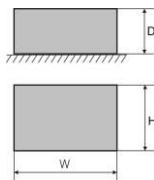
Buffer power supply module, switch mode 13,8VDC in an enclosure, on a DIN rail



KOD:
TYP:

MSRD 2012 v.1.0/II
MSRD 13,8V/2A buffer switch mode power supply module

EN*



Features:

- uninterrupted supply of 13,8VDC/2A
- supply voltage 18÷22VAC(external transformer required e.g.AWT150, AWT468)
- high efficiency 84%
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- battery output protection against short-circuit and reverse polarity connection
- jumper selectable battery charging current 0,2A/0,5A
- battery fuse status control
- LED indication
- START facility for manual battery connection
- STOP button for battery disconnection during battery-assisted operation
- FAC technical output indicating AC power collapse - relay and OC type
- FPS technical output indicating PSU failure
- protections:
 - SCP short-circuit protection
 - OLP overload protection
 - surge protection
- warranty – 5 year from the production date

General description

A buffer PSU module is intended for an uninterrupted supply to alarm systems devices requiring stabilised voltage of **12V/DC (+/-15%)**. The PSU module provides voltage of **13,8V DC** with current capacity:

1. Output current **2A (without a battery)**
 2. Output current **1,8A + 0,2A battery charge**
 3. Output current **1,5A + 0,5A battery charge**
- Total current of the receivers + battery: 2A max.**

In case of power failure, a battery back-up is activated immediately. The battery charging current is preset to 0,2A.

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SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Supply voltage	18V \div 22V/AC (e.g.AWT150, AWT468) 50Hz
Current consumption	2,4 A max.
PSU module power	28 W
Efficiency	84%
Output voltage	11V \div 13,8VDC – buffer operation 10V \div 13,8VDC – battery-assisted operation
Output current	2A without a battery 1,8A + 0,2A battery charge 1,5A + 0,5A battery charge
Voltage adjustment range	12V \div 14,5 V
Ripple voltage	30mV p-p max.
Battery charging current	0,2A / 0,5A – I _{BAT} jumper selectable
Short-circuit protection SCP	200% \div 250% of PSU module power - current limitation and/or fuse damage in the battery circuit (fuse-element replacement required)
Overload protection OLP	110% \div 150% (@25°C \div 55°C) of PSU module power - current limitation with the PTC resettable fuse, manual restart (failure requires disconnection of the DC output circuit)
Battery circuit protection SCP and reverse polarity connection	F3,15A- current limitation, F _{BAT} fuse (failure requires fuse-element replacement)
Deep discharge battery protection UVP	U<10V (\pm 5%) – disconnection (-BAT) of the battery
Technical outputs: - FAC; output indicating AC power failure - FPS; technical output indicating PSU operating status	1) - R type – relay, 1A@ 30VDC/50VAC max. - OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level, time lag: 10s. - OC type, 50mA max. normal status: L (0V) level, failure: hi-Z level (automatic return after restoration of correct operation)
LED indication	LEDs
Operating conditions	2nd environmental class, temperature: -10 °C \div 40 °C, relative humidity: 20%...90%, without condensation
Enclosure	plastic, white
Enclosure dimensions	70 x 89 x 69 (WxHxD)
Net/gross weight	0,19kg/0,25kg
Declarations, warranty	CE, RoHS, 5 year from the production date
Connectors	Φ 0,63 \div 2,50 (AWG 22-10)