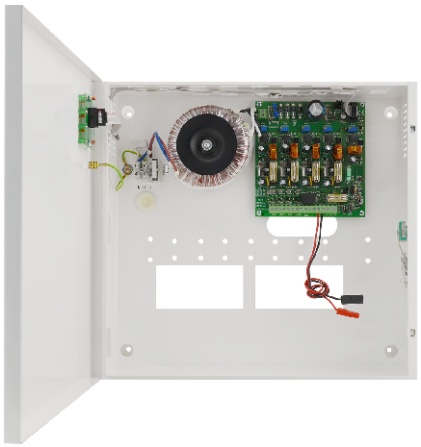
PSBSEP series power supply unit

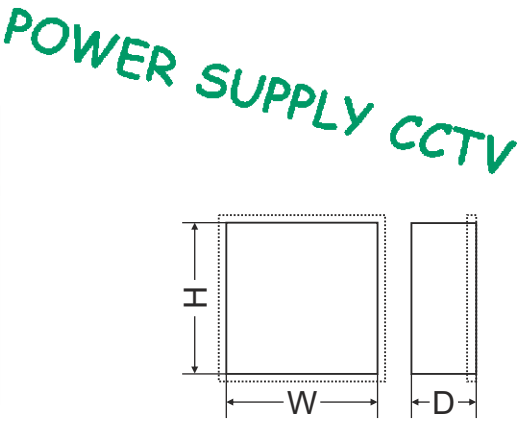
Buffer swiched-mode power supply 12-18VDC

CODE: **PSBSEP 04124** v.1.1/III

TYPE: **PSBSEP 12-18V/4x1A/2x7Ah/SEP buffer stwitched mode power supply for CCTV**

EN*





Features:

- 4 independently adjustable delivery channels for uninterruptible power supply in the range of 12 ÷ 18VDC/4x1A
- battery housing: 2x7Ah/12V
- 4 overvoltage protection OVP circuits, separate for each channel, 15V/18V/21V, jumper selectable
- supply voltage 230VAC
- high efficiency 70%
- separate battery charging circuit independent of preset output voltages
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- battery output protection against short circuit and reverse connection
- battery charging current 0,2A/0,5A, jumper selectable
- START battery activation button
- LED optical indication
- FAC technical output indicating AC power loss
- FLB technical output indicating low battery voltage
- FPS technical output indicating PSU failure
- the possibility of installing 4-channel MSEP412 or MSEP412V video module to Yap type cables
- protections:
  - SCP short-circuit protection
  - OLP overload protection
  - OVP overvoltage protection
  - Surge protection
  - Antisabotage protection
- warranty – 5 year from the production date

DESCRIPTION

The buffer power supply is intended for uninterrupted supply of CCTV systems requiring stabilized voltage of **12V DC (+/-15%)**. The PSU features 4 independently adjustable channels for power supply in the range of **4x12÷18VDC/4x1A**. This enables compensation of voltage drops in complex CCTV systems. The current efficiency of the PSU is:

1. Output current 4 x 1A + 0,2A battery charge
2. Output current 4 x 1A + 0,5A battery charge
Total current of the receivers + battery: 4,5A max.

In case of mains power loss, the unit will instantly switch to battery operation. The PSU is enclosed in a metal casing (color: RAL 9003) with battery housing for two 7Ah/12V batteries. The enclosure is fitted with a microswitch indicating door opening (at the front). The enclosure of the PSU design allows mounting 4-channel MSEP412 or MSEP412V video module, fitted with Yap cable connection sockets (coaxial cable integrated with the power supply).

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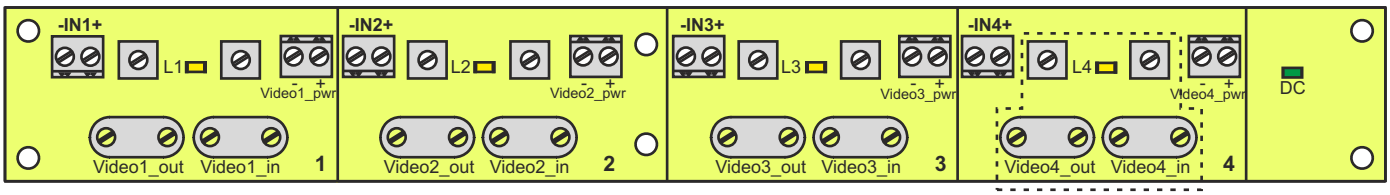
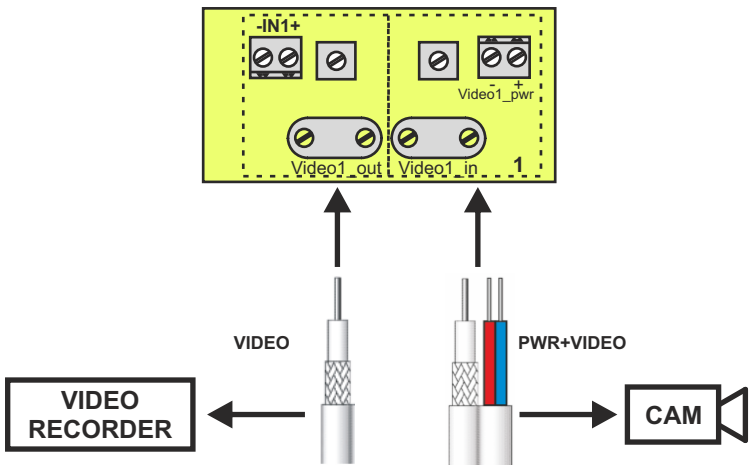
PSU type	A (EPS – External Power Source)
Mains supply	230 VAC (-15%/+10%)
Current consumption	0,5A@230V AC max.
Power frequency	50Hz
PSU power	60W max.
Output voltage	70%
Output current	4 x 12V÷18V each outputs adjusted separately
PSU power	**4 x 1A + 0,2A battery charge or** **4 x 1A + 0,5A battery charge**
Output voltage escalation, decrease, and keeping time	2ms / 20ms / 60ms
Voltage adjustment range	12÷18V DC all outputs adjusted separately
Ripple voltage	50 mV p-p max.
Current drawn by the PSU module systems	85 mA – battery-assisted operation
Battery charging current	0,2A/0,5A I_{BAT} jumper selectable
Short-circuit protection SCP	200% ÷ 250% of PSU module power - current limitation by a fuse (fuse-element replacement required)
Overload protection OLP	110% ÷ 150% (@25ºC) of PSU module power - current limitation with the fuse/PTC, manual restart (failure requires disconnection of the DC output circuit)
Over voltage protection OVP	15V/18V/21V –selected by the ”OVP” jumper, independently for each channel
Battery circuit protection SCP and reverse polarity connection	4A - current limitation, F_{BAT} fuse (failure requires fuse-element replacement)
Deep discharge battery protection UVP	<20V (± 5%) – disconnection of the battery terminal
Surge protection	4 x varistors
Tamper resistance: **- TAMPER outlet indicating opening of the enclosure**	- microswitch, NC contacts (enclosure closed), 0,5A@50V DC (max.)
Technical outputs: **- FAC; output indicating AC power failure** **- FLB; output indicating** **- FPS; technical output indicating PSU operating status**	- OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level (automatic return after restoration of correct operation) - R type – relay, 1A@ 30Vdc/50Vac max. time lag, approx. 5s/140s/17min/2h20m (+/-5%) - OC type, 50mA max. normal status: L (0V) level, failure: hi-Z level, V_{BAT} < 23V - OC type, 50mA max. normal status: L (0V) level, failure: hi-Z (automatic return after restoration of correct operation)
LED indication	YES – LEDs
Enclosure	Steel plate, DC0, 0,8mm thick, RAL9003, IP20
Operating conditions	2nd environmental class, temperature: -10 ^{o}C÷40 ^{o}C, relative humidity 20%...90%, without condensation
Dimensions	345 x 322 x 116 mm (WxHxD)
Net/gross weight	5,12 /5,36 kg
Fitting battery	2x7Ah/12V (SLA)
Connectors	Power supply: Φ0,41-2,5 Outputs: Φ0,41÷2,5
Closing	Cheese head screw x2 (at the front)
Declarations, warranty	CE, RoHS, 5 year from the production date
Notes	The enclosure does not adjoin the assembly surface so that cables can be led. Convectional cooling.

PSBSEP04124 PSU configuration with the use of MSEP412 4-channel video module featuring proper connection outlets for the Yap leads (coax cable).





PSBSEP04124 PSU configuration with the use of MSEP412V 4-channel video module featuring proper connection outlets for the Yap leads (coax cable).