

PSCU series power supply

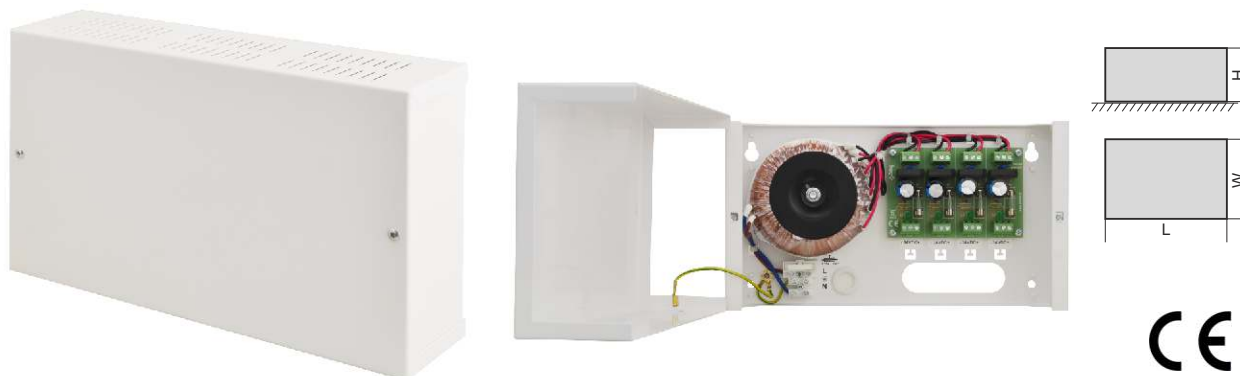
Power supply DC for 4 cameras, 4A, for transmission lines



EN**

CODE: **PSCU04344SEP** v.1.0/III

TYPE: **PSCU 34VDC/4A/4x1A/SEP** Power supply for 4 cameras, 4A for transmission lines.



PSU features:

- DC 34V/4x1A unregulated power output
- Supply voltage 230V AC
- 4 independent, galvanically isolated outputs
- 4 outputs independently protected by 1A fuses
- LED optical indication
- Protections:
 - Short-circuit protection SCP
 - overload protection OLP
 - transformer overheat protection OHP
 - surge protection
- Warranty – 5 years from the production date

DESCRIPTION

The **PSCU04344SEP** power supply is dedicated to solve the problem of long sections of cables (voltage drops). The PSU supplies constant voltage in the range **30÷35V DC** and current efficiency of **I=4x1A**, by a supply line to the **DCDC10H** or **DCDC15H** converters. The choice of the converter is determined by the maximum current consumption of the camera. The **DCDC10H** converter is designed to supply cameras with current consumption of **0,8A/12VDC max**. For cameras with max current consumption of **1,2A/12V DC**, **DCDC15H** converter is recommended. The converters' voltage is regulated to **12VDC**, enabling power supply of the cameras. The PSU is fitted with 4 independent, galvanically isolated outputs protected by melting fuses.

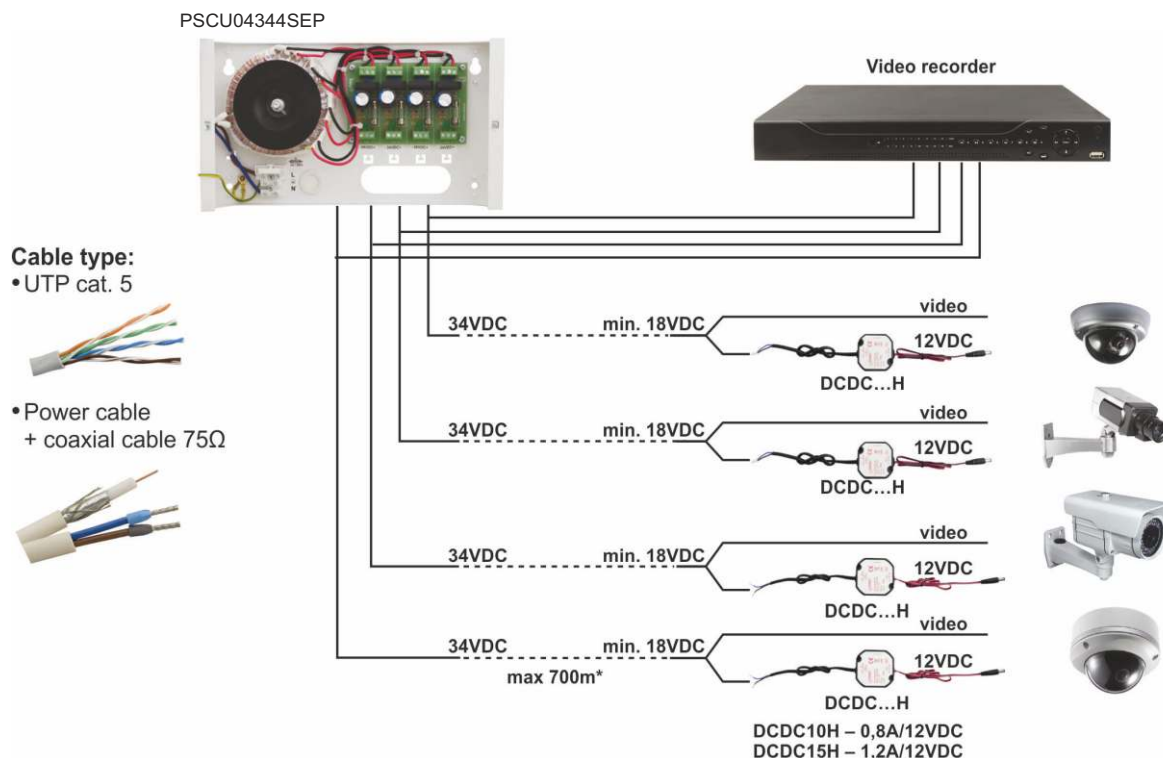
SPECIFICATIONS	
Supply voltage	18V÷22V AC
Current consumption	0,8A@230V AC max.
PSU's power	120W max.
Output voltage	30V÷ 35V DC (100% load ÷ 0% load)
Output current	4x1A@30V DC max.
Short-circuit protection SCP	4x T 1A melting fuse (failure requires fuse replacement)
Overload protection OLP	DC 30 V: 4x T 1A circuit AC 230V: T 3,15A circuit
Surge protection	varistors
LED indication	Yes - LEDs
Operating conditions	2nd environmental class, -10 °C÷40 °C
Enclosure	Steel plate, DC01 0,7mm color RAL 9003
Enclosure dimensions	270 x 154 x 80+8 [mm] (WxHxD)
Net/gross weight	3,25kg / 3,4kg
Closing	Cylindrical screw x 2 (at the front)
Declarations, warranty	CE, RoHS, 5 year from the production date
Notes	The enclosure does not adjoin the mounting surface so that cables can be led – 8mm. Convection cooling. Mains supply: Ø0,63-2,50 (AWG 22-10) Outputs: Ø0,51-2,05 (AWG 24-12)

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Example of use of power supply:



Typical distances between the power supply and the DC/DC converter:

Cable type:	Cross-section [mm ²]	According to AWG	The distance between the PSCU04344 power supply unit and the DC/DC converter:	
			Current consumption of the camera: 0,8A/12VDC	Current consumption of the camera: 1,2A/12VDC
UTP5e twisted pair cable, one pc	0,2mm ²	24AWG	100 m	60 m
UTP5e twisted pair cable, 2 pcs	0,4mm ²	21AWG	200 m	120 m
UTP5e twisted pair cable, 3 pcs	0,6mm ²	19AWG	300 m	180 m
Stranded cable	0,25mm ²	23AWG	100 m	75m
Stranded cable	0,5mm ²	20AWG	250 m	150m
Stranded cable	0,75mm ²	18AWG	400 m	240m
Stranded cable	1,0mm ²	17AWG	500 m	300m
Stranded cable	1,5mm ²	15AWG	700 m	400m

The distances are given for the rated voltage of $U_n=230V_{ac}$ and $T_a=20^{\circ}C$.