

PSCU series power supply

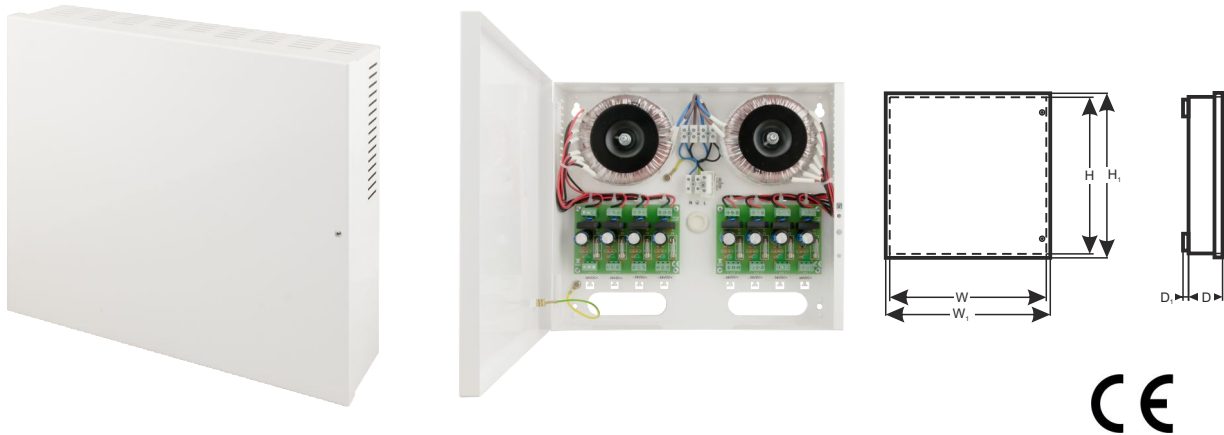
Power supply for 8 HD cameras, 8A, for transmission lines



EN**

CODE: **PSCU08348SEP** v.1.0/1

TYPE: **PSCU 34VDC/8A/8x1A/SEP** Power supply for 8 HD cameras, 8A, for transmission lines.



PSU features:

- DC 34V/8x1A unregulated power output
- Supply voltage 230V AC
- 8 independent, galvanically isolated outputs
- 8 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 **PSCU08348SEP** 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=8x1A**, 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/12V DC 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 8 independent, galvanically isolated outputs protected by melting fuses.

SPECIFICATIONS	
Supply voltage	230V AC
Current consumption	1,6A@230V AC max.
PSU's power	240W max.
Output voltage	30V± 35V DC (100% load ÷ 0% load)
Output current	8x1A@30V DC max.
Short-circuit protection SCP	8x T 1A melting fuse (failure requires fuse replacement)
Overload protection OLP	DC 30V: 8x T 1A circuit AC 230V: T 6,3A circuit
Surge protection	varistors
LED indication	Yes - LEDs
Operating conditions	2nd environmental class, -10 °C+40 °C
Enclosure	Steel plate, DC01 1,0mm color RAL 9003
Dimensions	W=290, H=250, D+D ₁ =72 +8 [+/- 2 mm] W ₁ =295, H ₁ =255 [+/- 2 mm]
Net/gross weight	5,2kg / 5,4kg
Closing	Cylindrical screw x 2 (at the front)
Declarations, warranty	CE, 5 year from the production date
Notes	The enclosure does not adjoin the mounting surface so that cables can be led – 8mm.

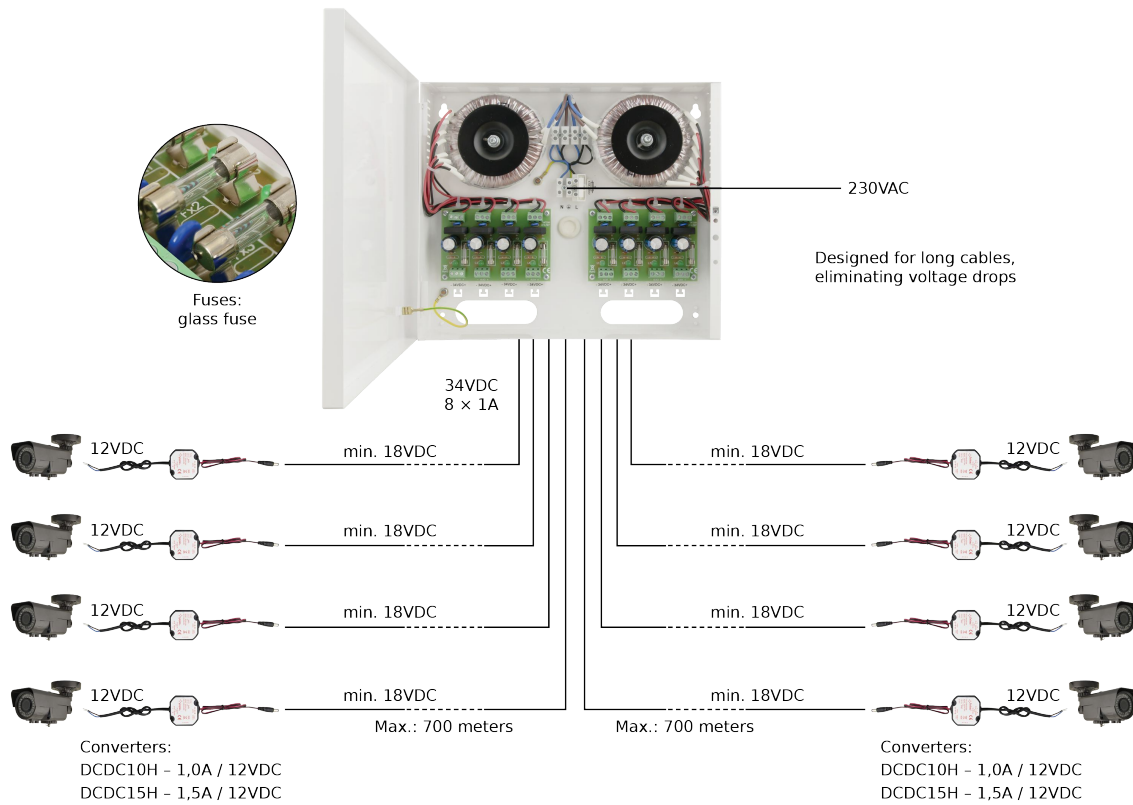
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Example of use of power supply:

PSCU08348SEP



Typical distances between the power supply and the DCDC converter:

Cable type:	Cross-section [mm ²]	According to AWG	The distance between the PSCU08348 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	100m	60m
UTP5e twisted pair cable, 2 pcs	0,4mm ²	21AWG	200m	120m
UTP5e twisted pair cable, 3 pcs	0,6mm ²	19AWG	300m	180m
Stranded cable	0,25mm ²	23AWG	100m	75m
Stranded cable	0,5mm ²	20AWG	200m	150m
Stranded cable	0,75mm ²	18AWG	400m	240m
Stranded cable	1,0mm ²	17AWG	500m	300m
Stranded cable	1,5mm ²	15AWG	700m	400m

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