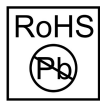
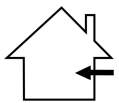




Desktop type switch mode power supplies

PSD12006, PSD12010, PSD12020, PSD12030, PSD12050, PSD12070, PSD12100

EN



Edition: 1st from 09.07.2010
Supercedes edition: _ _ _ _ _

1. Technical description.

1.1. General description.

Stabilised DC power supply is intended for cameras installed in CCTV industrial systems. The unit has a cable with a DC5.5/2.1 pin. When connected to fuse blocks of the LB4/xx/xx or LB8/xx/xx family, the power supply unit can feed more cameras (max. 4 or 8). The unit is protected against short-circuit and overload.

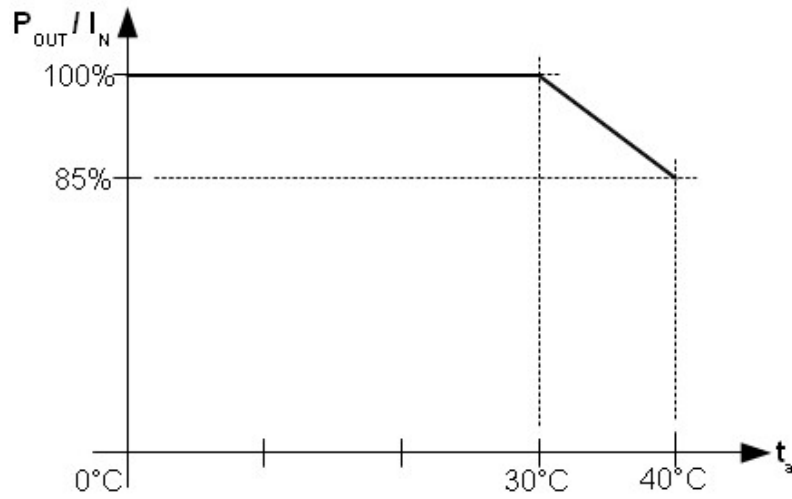
1.2. Technical parameters.

	PSD 12006	PSD 12010	PSD 12020	PSD 12030	PSD 12050	PSD 12070	PSD 12100
Dimensions (L x W (W1) x H)	65x36(56) x30	65x36(56) x30	86x50(72) x32	107x47(82) x33	112x52(81) x35	116x56(84) x37	175x72(101) x45
Net/Gross weight	130g/155g	130g/155g	205g/235g	250g/280g	300g/340g	350g/395g	650g/710g
DC plug	DC5,5/2,1 female						
AC cable length	115cm	115cm	115cm	115cm	145cm	145cm	145cm
DC cable length	145cm	145cm	145 cm	145cm	115cm	125cm	150cm
AC supply	100 V \pm 240 V AC 50/60 Hz						
Maximum AC variation	90 V \pm 264 V AC 50/60 Hz						
Output power*	7,2W*	12W*	24W*	36W*	60W*	84W*	120W*
Output voltage	12 V DC						
Maximum output current for t_{AMB}<30°C	0,6A*	1A*	2A*	3A*	5A*	7A*	10A*
Maximum output current for t_{AMB}=40°C	0,4A*	0,7A*	1,4A*	2,1A*	3,5A*	4,9A*	7A*
Output ripple	<120mV						
Short circuit protection / Overload protection	Yes						
Operation status indication	Yes – LED diode						
Operation condition	0 \div 40°C , RH 10 \div 90 % , no condensation						
Remarks	(3)	(3)	(3)	(3)	(3)	(1), (3)	(1), (2), (3)

REMARKS:

- (1) – detachable DC cable, power supply is sell with a AC cable (EV 1,2m, code PSD12)
- (2) – power supply has build in PFC circuit
- (3) – fastening clips to a wall

* - output current of the power supply unit depending on ambient temperature. For temperature above 30°C maximum output current is limited according to graph 1. The power supply operation life time is limited by reliability of the electrolyte capacitors which strongly depends of an operation temperature. Avoid excessive temperature rise of the power supply!



Graph 1 Relation between output power and ambient temperature.

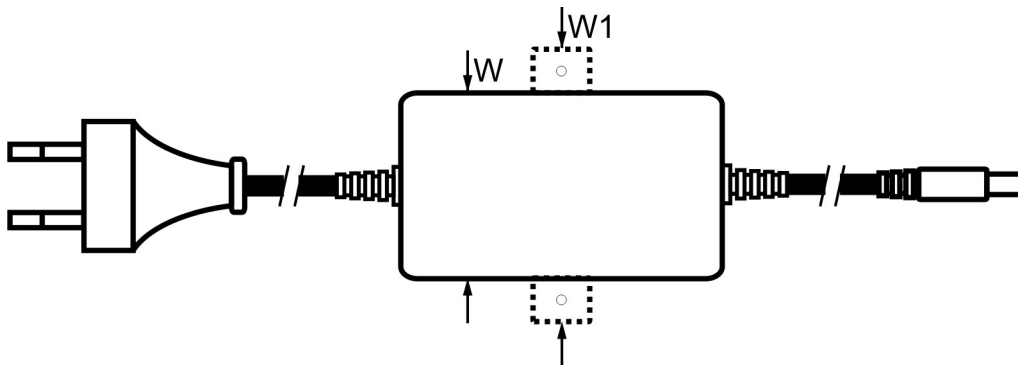


Figure 1 Dimensions of the power supply.

1.3. Accessories.

Following accessories are available for desktop power supplies:

- fuse blocks LB4/xx/xx (AWZ573, AWZ574, AWZ575, AWZ576)

Fuse block is intended for connect multiple loads to one power supply unit. Fuse block has four, independently protected outputs. Each output is protected against: overvoltage (varistor) and short circuit / overload. Depends of type of the fuse block, overload / short circuit protection is realized with fuse or resettable PTC fuse.

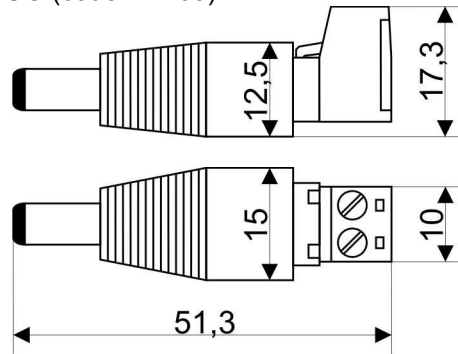
	AWZ573 LB4/0,3A/PTC	AWZ574 LB4/0,5A/PTC	AWZ575 LB4/1,0A/PTC	AWZ576 LB4/0,3-1,0A/FTA
Protections: - short circuit SCP - overload OLP	- 4 x 0,3A PTC	- 4 x 0,5A PTC	- 4 x 1,0A PTC	- 4 x F 0,3A or - 4 x F 0,5A or - 4 x F 1,0A

- fuse blocks LB8/xx/xx (AWZ577, AWZ578, AWZ579, AWZ580)

LB8/xx/xx module is similar to LB4/xx/xx with one exception: LB8/xx/xx has eight outputs.

	AWZ577 LB8/0,3A/PTC	AWZ578 LB8/0,5A/PTC	AWZ579 LB8/1,0A/PTC	AWZ580 LB8/0,3-1,0A/FTA
Protections: - short circuit SCP - overload OLP	- 8 x 0,3A PTC	- 8 x 0,5A PTC	- 8 x 1,0A PTC	- 4 x F 0,3A or - 4 x F 0,5A or - 4 x F 1,0A

- adapter CABLE – DC 5,5/2,1 PLUG (code ML109)



2. Installation.

2.1 Requirements.

The desktop power supply shall be mounted by the qualified installer having appropriate (required and necessary for a given country) permissions and qualifications for connecting (operating) low-voltage installations. The unit shall be mounted in closed rooms, according to the environment class II, of the normal air humidity (RH=90% max. without condensation) and the temperature within the range from 0°C to +40°C.

The power supply shall be mounted in a close casing (a cubicle, a terminal device) and in order to fulfill LVD and EMC requirements the rules for power-supply, encasing and shielding shall be observed according to application.

2.2 Installation procedure.

1. Connect the DC output to the load/loads.
2. Connect the power supply unit to the AC line. The power supply has to be installed in such way to keep air flow around the power supply unit.
3. After tests and operation control are performed, the casing (cubicle) shall be closed etc.

3. Maintenance.

All the maintenance duties may be performed following disconnection of the power pack from the power grid. The power pack does not require any specific maintenance procedures, however, in the case of significant level of dust, its interior should be cleaned with the compressed air.



WEEE designation

The waste electric and electronic equipment worn out may not be disposed of together with standard household waste. According to the WEEE directive, applicable in the EU, the separate neutralization methods should be used for electric and electronic equipment.

THE GENERAL WARRANTY CONDITIONS

1. Pulsar K. Bogusz, Particular Partnership (the manufacturer) provides a one-year quality warranty for devices, as from the purchase date placed on a purchase proof.
2. The warranty includes free repair or replace for a functional equivalent (the selection is performed by the manufacturer) of a non-operational device due to reasons dependent on the manufacturer, including production and material defects, as far as defects are notified within the warranty period (item 1 and 2).
3. The equipment subject to warranty shall be provided to the point, where it has been purchased or directly to the place of business.
4. The complete devices are subject to warranty, and the sort of defect shall be described in written in a correctly fulfilled claim notification.
5. If a claim is accepted, the manufacturer is obliged to perform warranty repairs as soon as possible, but no later than 14 working days since the device is provided to the service of the manufacturer.
6. The repair period specified in item 5 can be extended, if there are no technical opportunities to perform the repair or the equipment is conditionally accepted by the service due to non-compliance of the warranty conditions by the person lodging a claim.
7. All service actions related to warranty are performed exclusively at the service of the manufacturer.
8. The warranty does not include the following defects of the device due to:
 - manufacturer-independent reasons,
 - mechanical defects,
 - improper storage and transport,
 - operation contrary to the instruction manual or purpose of the device,
 - emergencies, including atmospheric discharges, failures of the power network, fire, flood, effect of high temperature and chemical agents,
 - improper installation and configuration (contrary to the instruction manual)
9. The loss of rights resulting from the warranty always occurs, if it is confirmed that construction changes have been performed or repairs have not been performed at the service of the manufacturer, or if serial numbers or warranty labels of the device are somehow replaced or damaged.
10. The responsibility of the manufacturer towards the purchaser is limited to the value of the device determined according to the wholesale price from the purchase day suggested by the manufacturer.
11. The manufacturer does not bear any responsibility for damages resulting from failure, faulty operation or inability to use the device, particularly if it results from non-compliance with advices and requirements included in the instruction manual or contrary to purpose of the device.

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