



Enclosed switch mode power supplies
**PS401203, PS601250,
 PS1001207, PS15012100**

EN



Edition: 3rd from 16.04.2011
 Supercedes edition: 2nd z from 15.11.2010

1. Technical description.

1.1 General characteristics.

The power supply units are intended for the feeding of alarm system equipment, which requires uninterruptible supply of 12VDC voltage, provided by 230VAC mains. Their design enables simple switching of the output voltage, within the range of 12÷15VDC, using a potentiometer. The power supply units are protected against short-circuit, overload and overvoltage.

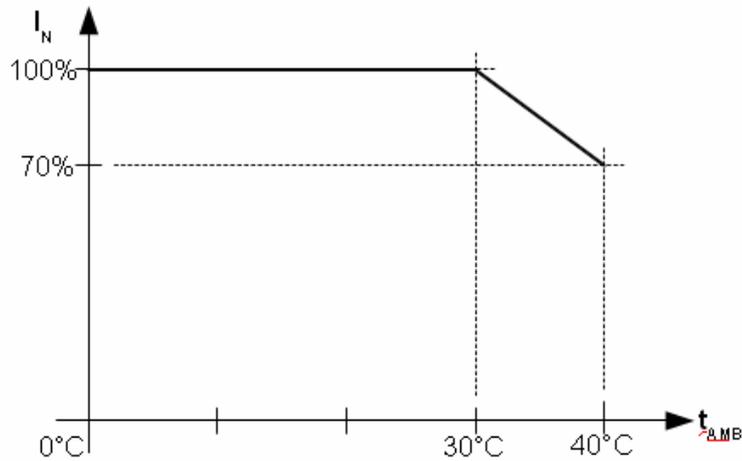
1.2 Technical parameters.

	PS401203	PS601250	PS1001207	PS15012100
Dimensions (L x W x H)	129 x 98 x 40mm	160 x 98 x 39mm	199 x 98 x 39mm	191 x 110 x 50mm
Net/Gross weight	0,375kg / 0,395kg	0,480kg / 0,510kg	0,640kg / 0,670kg	0,730kg/ 0,775kg
Input voltage	85 ÷ 264 V AC 120 ÷ 370 V DC	85 ÷ 264 V AC 120 ÷ 370 V DC	170 ÷ 264 V AC	176 ÷ 264 V AC
Leakage current	<0,7mA / 230 VAC	<0,7mA / 230 VAC	<0,7mA / 230 VAC	<0,7mA / 230 VAC
Output voltage	12 V ÷ 15V DC (12V factory settings)			
Output power	40W	60W	100W	150W
Output current for t_{AMB} < 30°C	3,0 A*	5,0 A*	7,0 A*	10,0 A*
Output current for t_{AMB} = 40°C	2,1 A*	3,5 A*	4,9 A*	7,0 A*
Output ripple	<100mV	<100mV	<100mV	<100mV
Short circuit protection	YES	YES	YES	YES (shut off: reset requires disconnecting load or supply for about 5 s.)
Overload protection	110% - 150% output power	105% - 150% output power	110% - 130% output power	105% - 150% output power (shut off: reset requires disconnecting load or supply for about 5 s.)
Overvoltage protection	YES	YES	YES	YES (shut off: reset requires disconnecting supply for about 20 s.)
Operation conditions	0 °C ÷ 40°C , RH 20 ÷ 90 % , no condensation			
REMARKS	1-st Protection Class			

REMARKS:

Output current (*):

Maximum continuous output current depends of the ambient temperature – refer to graph 1.



Graph 1. Relation between ambient temperature and maximum continuous output current of the PSU.

2. Installation.

2.1 Requirements.

The 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.

Due to the power supply design, the PE wire has to be connected to the corresponding connector of the supply unit. Operation without proper grounding of the power supply is not allowed!

2.2 Installation procedure.

1. Prior to installation of the power supply unit, make sure that power leads have been disconnected from the 230VAC mains.

2. Install the unit in the previously selected place.

3. Connect the 230VAC power leads. Connect the PE cable (yellow-green) to an appropriate terminal on the power supply unit (marked with \perp).



The circuit of the shock protection shall be performed with a particular care, i.e. the yellow and green protection wire of the power cable shall be connected from one side to the terminal marked by the symbol of \perp in the casing of the power-supply. Operation of the power-supply without the properly made and fully operational circuit of the shock protection is

UNACCEPTABLE!

It can result in failure of devices and electric shock.

4. Connect load/loads to proper output junctions of the power supply unit (positive end is marked as V+, negative end as V- or COM).

5. Upon the completion of tests and trial activation, close the housing, cabinet etc.

Connectors/elements description:

Elements/terminals	Description
L, N, PE	L-N - input voltage connectors 230 V AC, PE – protective conductor connector
V- (COM)	Output ground (0V)
V+	Power supply output (+12V)
LED D1 (LED1)	Diode signals the presence of voltage at the unit's output
P1 (VR1)	Potentiometer - output voltage adjust

3. Maintenance.

All maintenance operations can be carried out only if the unit has been disconnected from the power network. The unit does not require any particular maintenance. However, clean with compressed air, if heavily dusted.

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.

Pulsar K.Bogusz Sp.j.

Siedlec 150, 32-744 Łapczyca, Poland
Tel. (+48) 14-610-19-40, Fax. (+48) 14-610-19-50
e-mail: biuro@pulsar.pl, sales@pulsar.pl
[http:// www.pulsar.pl](http://www.pulsar.pl)