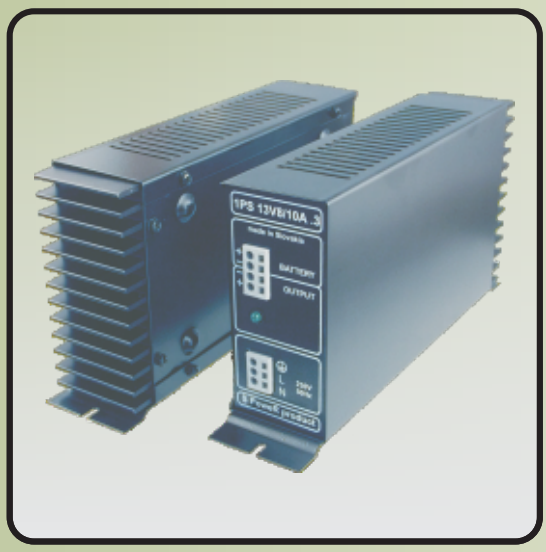
Switch mode power supplies
1PS series
Max. output power 150W



This product is intended for general use to feed electric and electronic devices in covered rooms, in environments without risk of explosion.

Output voltage range from 5V to 48V

Mounting with screws

Option to order DIN-rail mounting

	Output voltage	Output current	Stability	Ripple 50 Hz	Noise p-p
1PS05V/10A.xx	5 V	10 A	2 %	<30 mV	<160 mV pp
1PS06V9/10A.xx	6,9 V	10 A	2 %	<80 mV	<160 mV pp
1PS09V/10A.xx	9 V	10 A	1 %	<60 mV	<100 mV pp
1PS12V/10A.xx	12 V	10 A	1 %	<60 mV	<100 mV pp
1PS13V8/10A.xx	13,8 V	10 A	1 %	<60 mV	<150 mV pp
1PS15V/09A.xx	15 V	9 A	1 %	<80 mV	<100 mV pp
1PS18V/07A.xx	18 V	7 A	1 %	<80 mV	<100 mV pp
1PS24V/06A.xx	24 V	6 A	1 %	<150 mV	<100 mV pp
1PS27V6/05A.xx	27,6 V	5 A	1 %	<150 mV	<100 mV pp
1PS48V/03A5.xx	48 V	3,5 A	1 %	<200 mV	<100 mV pp

.xx - marking of version and sort of additional functions

TECHNICAL SPECIFICATION	
Input voltage	195 - 255 V AC
Input voltage DC	290 - 357 V DC
Operating temperature	5 °C to +40 °C
Operating relative humidity of environment	max. 75%
Efficiency (typical)	83%
Short-circuit protection on output	permanent
Insulation voltage	3 000 V AC
Weight	1,35 kg
Electrical safety standard	EN 60950-1:2003, EN 60335-2-29, EN 60 335-1+
EMC standards	EN 55022-B, EN 61000-3-2:2002 , EN 61000-3-3:2000+A1:2003, EN 61000-4-2,
	EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6,
	EN 61000-4-8, EN 61000-4-11, EN 61000-6-1:2003, EN 61000-6-3:2001

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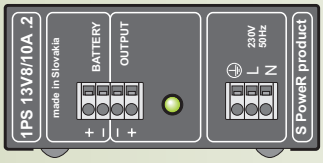
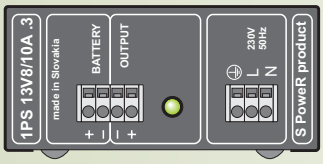
.Xx basic version and function

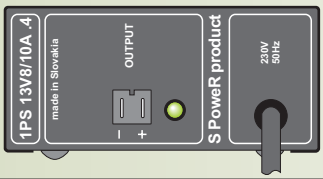
.2 input - WAGO
output - WAGO



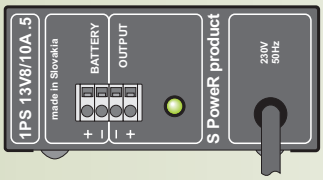
.3 input - WAGO
output - WAGO
with AKU disconnector



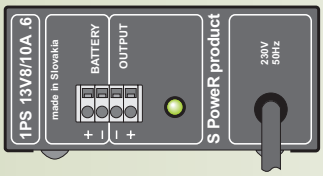
.4 input - FLEXO cable
output - FAST ON



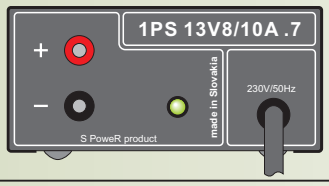
.5 input - FLEXO cable
output - WAGO



.6 input - FLEXO cable
output - WAGO
with AKU disconnector



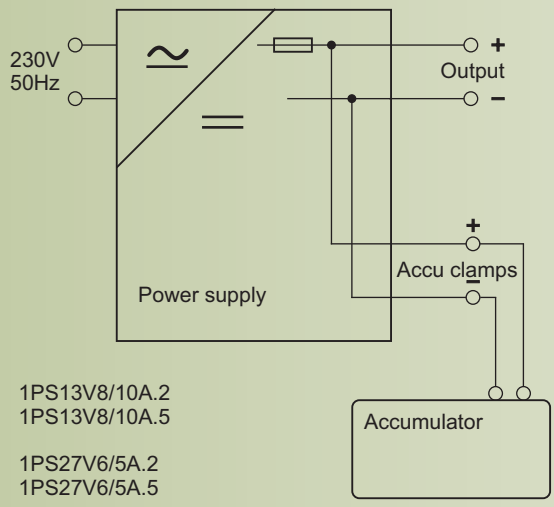
.7 input - FLEXO cable
output - sockets



Additional versions and functions

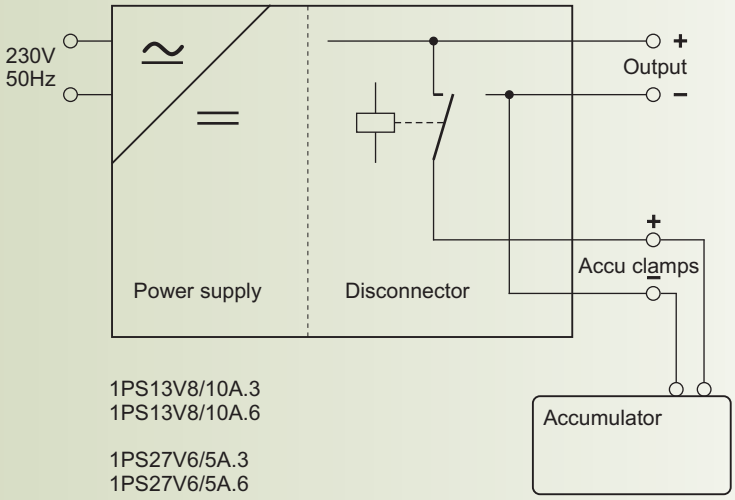
Some of the basic versions marked with first symbol is possible to extend them with additional functions and versions. These are marked with second symbol after the dot. It is necessary to consult additional versions with the manufacturer.

x2 mains failure signalization (transistor - opto-coupler)
.x8 input voltage 110 V AC
.x9 printed circuit board filled with insulation material
.xT operating temperature from -20 °C



1PS13V8/10A.2
1PS13V8/10A.5

1PS27V6/5A.2
1PS27V6/5A.5



1PS13V8/10A.3
1PS13V8/10A.6

1PS27V6/5A.3
1PS27V6/5A.6

AKU disconnector

When AKU voltage drops below 10,5 V (21 V) it is galvanically disconnected from power load and protected from potential deep discharge.
During power failure devices are powered from backup accumulator. If power failure lasts extremely long, accumulator is discharging and voltage on accumulator dropps below minimal value specified by manufacturer as a value below which is a danger of damaging the accumulator. Below this limiting value when accumulator stays under load the voltage drops quickly (accumulator is discharged and only negligible energy quantum is accumulated in it). Practical contribution from operating accumulator in this mode is in term of extension of backup period negligible but in term of service costs (irreversible accumulator damage and necessity to replace it) at actual relation of prices is considerable. Devices connected to accumulator with low voltage value also usually do not work and this mode does not perform its task. To not to come to damaging the accumulator AKU disconnector galvanically disconnects accumulator from power load when voltage on accumulator drops below set value.

. . . parallel connection of accumulator to output of the power supply

We can create simplest backup complex 12 V (24 V) with using power supply 13,8 V (27,6 V) and accumulator 12 V (24 V) that we connect in parallel to output of the power supply. This kind of complex is able to supply for a short term higher current also than is maximum current of the stabilized power supply.

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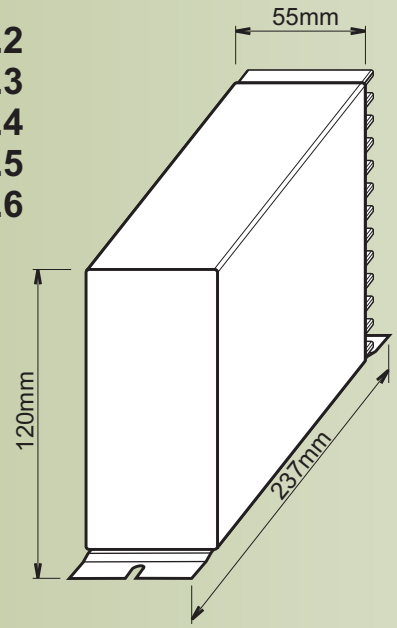
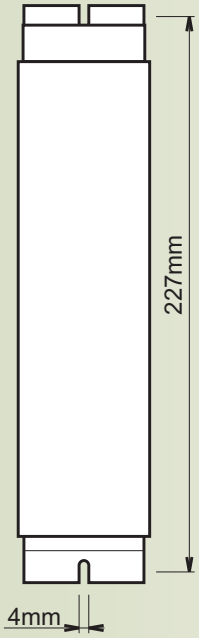
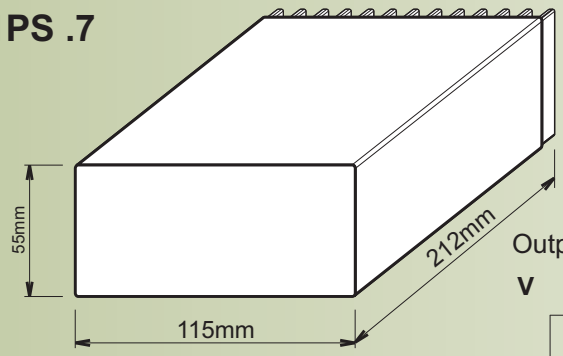
1PS .2
1PS .3
1PS .4
1PS .5
1PS .6





Top view

1PS .7



Output voltage