

# DUAL SWITCHMODE POWER SUPPLY



- 24 / 115 / 230 VAC supply voltage
- 3.75 kVAC isolation
- 2 adjustable 5...24 VDC outputs
- Output:  $\pm 5$ ...24 VDC, 10...48 VDC
- Short circuit protection
- Thermal protection against overload



## Applications:

Supply for small measuring systems that demand 2 stabilised voltages. • Either as a combination of positive and negative voltages, or as 2 separate supplies as required.

## Technical characteristics:

To achieve an adjustable output with minimum power loss, the 2223 is based on switchmode technology. The isolation test voltage between input and outputs being 3.75 kVAC, the unit is suitable in PELV/SELV circuits. The double-isolated safety transformer has a bimetal fuse that disconnects the input circuit if the internal temperature exceeds 100°C. The fuse automatically resets.

## Mounting:

The 2223 is for standard 11-pole socket mounting in all positions. To achieve maximum cooling of the module, mounting in a vertical position at a distance of minimum 10 mm between neighbouring units is recommended.

## Input:

Standard supply voltage according to the specifications. The built-in double-isolated safety transformer ensures galvanic isolation.

## Output:

The outputs are adjustable by 2 front potentiometers in the ranges 5...24 VDC. Two green LEDs, Power on 1 and Power on 2, indicate active outputs. The short circuit protection limits the current on each output. The two supplies are galvanically separated with 500 VAC test voltage and can be connected in series or used as two independent supplies with or without common gnd. By connecting the two outputs in series, 10...48 VDC or  $\pm 5$ ...24 VDC are achieved. The total output power must not exceed 7.5 W.

As regards possible connexions of the two outputs, please see the reverse.

## Electrical specifications:

### Specifications range:

(@-20°C to +60°C)

### Common specifications:

Internal consumption max.....	4 W
Isolation, test / operation .....	3.75 kVAC / 250 VAC
Isolation output 1 / 2, test / operation ..	500 VAC / 50 VAC (75 VDC)
Transformer .....	EN 60 742
Temperature coefficient .....	0.05%/°C
Effect of supply voltage change ( $\pm 10\%$ ) .....	< $\pm 30$ mV
Transient stability (10%-max. load) ....	< 250 mV
EMC immunity influence .....	< $\pm 0.5\%$
Relative air humidity .....	< 95% RH (non-cond.)
Dimensions (HxWxD).....	80.5 x 35.5 x 84.5 mm
Tightness .....	IP30
Weight .....	400 g

### Input:

Supply voltage.....	24 VAC $\pm 10\%$ 115 VAC $\pm 10\%$ 230 VAC $\pm 10\%$
Frequency.....	50...60 Hz

### Output:

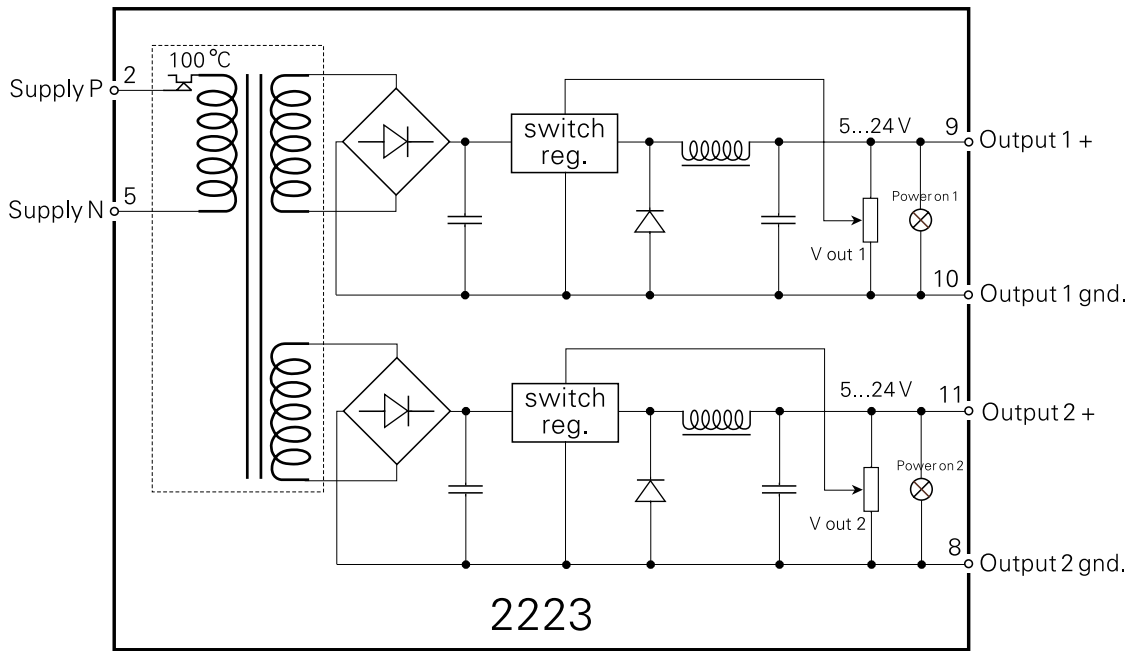
Output voltage.....	5...24 VDC $\pm 5\%$
Output power, total.....	Max. 7.5 W
Output current, per channel .....	0.5 A / 5 VDC (2.5 W) 0.37 A / 12 VDC (4.5 W) 0.30 A / 15 VDC (4.5 W) 0.18 A / 24 VDC (4.3 W)
Load effect, (10%-max. load).....	< 1.5% / A
Current limit (short circuit) .....	Typ. 100 mA
Output ripple .....	< 20 mVRMS

### Observed authority requirements: Standard:

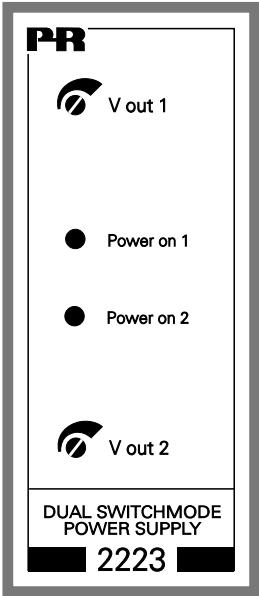
EMC 89/336/EEC, Emission .....	EN 50 081-1, EN 50 081-2
Immunity .....	EN 50 082-2, EN 50 082-1
Emission and immunity .....	EN 61 326
LVD 73/23/EEC .....	EN 61 010-1
PELV/SELV .....	IEC 364-4-41 and EN 60 742

Type	Version	Output 1	Output 2
2223	115 VAC : A	Special (5...24 VDC) : 0	Special (5...24 VDC) : 0
	230 VAC : B	24 VDC : 1	24 VDC : 1
	24 VAC : D	15 VDC : 2	15 VDC : 2
		12 VDC : 3	12 VDC : 3
		5 VDC : 4	5 VDC : 4

Block diagram:



Front layout::



Connexion diagram:

