

## Dual switchmode power supply

### 2223



- 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



#### Advanced features

- The power supply is based on primary switch mode technology to achieve a high efficiency.
- The outputs are adjustable by 2 front potentiometers in the ranges 5...24 VDC.

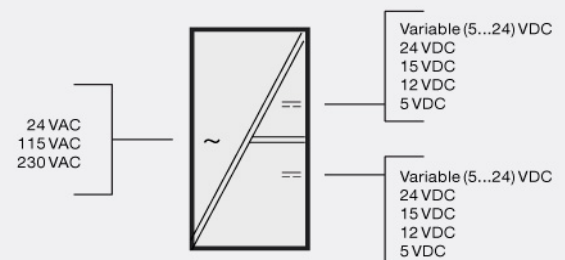
#### Application

- Supply for small measuring systems that demand 2 stabilized voltages.
- Either as a combination of positive and negative voltages, or as 2 separate supplies as required.
- 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.
- Separation of circuits in safety installations according to PELV/SELV.
- Galvanic isolation between the primary and the secondary voltage is achieved through the double-isolated safety transformer.

#### Technical characteristics

- Two green LEDs, Power ON 1 and Power ON 2, indicate active outputs.
- By connecting the two outputs in series, 10...48 VDC or  $\pm 5...24$  VDC can be achieved.
- The Input circuit is protected with a bimetal thermal fuse.
- DC output short circuit protection with current limiter.
- Mounting for a standard 11-pole socket which can be adapted for DIN rail or plate use with PR's 7023 adaptor and 7024 mounting keying.

#### Connections



**Order:**

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

**Environmental Conditions**

Specifications range.....	-20°C to +60°C
Relative humidity.....	< 95% RH (non-cond.)
Protection degree.....	IP30

**Mechanical specifications**

Dimensions (HxWxD).....	80.5 x 35.5 x 84.5 mm (D is without pins)
Weight approx.....	400 g

**Common specifications**

Internal consumption.....	4 W
Isolation voltage, test / working.....	3.75 kVAC / 250 VAC
Isolation output 1 / 2, test / working.....	500 VAC / 50 VAC (75 VDC)
Effect of supply voltage change.....	< ±30 mV (±10%)
Transformer.....	EN 60742
Transient stability (10%-max. load).....	< 250 mV
Temperature coefficient.....	0.05% / °C
EMC immunity influence.....	< ±0.5%

**Input specifications**

Supply voltage.....	21.6...26.4 VAC
Supply voltage.....	103.5...126.5 VAC
Supply voltage.....	207...253 VAC
Frequency.....	50...60 Hz

**Output specifications**

Output voltage.....	4.75...25.2 VDC
Output power.....	Max. 7.5 W (total)
Output current, per channel.....	0.5 A / 5 VDC (2.5 W)
Output current, per channel.....	0.37 A / 12 VDC (4.5 W)
Output current, per channel.....	0.30 A / 15 VDC (4.5 W)
Output current, per channel.....	0.18 A / 24 VDC (4.3 W)
Load effect (10%-max. load).....	< 1.5% / A
Current limit.....	Typ. 100 mA (short circuit)
Output ripple.....	< 20 mVRMS

**Approvals**

EMC.....	EN 61326-1
LVD 2006/95/EC.....	EN 61010-1
PELV/SELV.....	IEC 364-4-41 and EN 60742
EAC TR-CU 020/2011.....	EN 61326-1