

## 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 switch mode technology to achieve a high efficiency.
- The outputs are adjustable by 2 front potentiometers in the ranges 5...24 VDC.

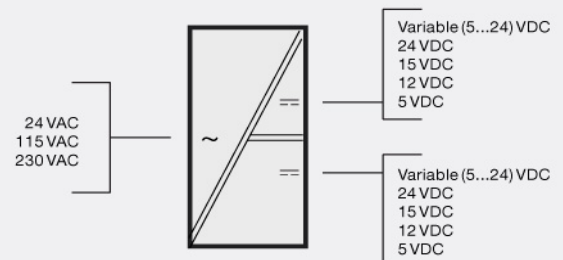
#### Application

- 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.

#### Applications



**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**

Operating temperature..... -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****Supply**

Internal power dissipation..... 4 W

**Isolation voltage**

Isolation voltage, test /  
working..... 3.75 kVAC / 250 VAC  
Isolation output 1 / 2, test  
/ working..... 500 VAC / 50 VAC (75 VDC)  
PELV/SELV..... IEC 61140

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****Current output**

Current limit..... Typ. 100 mA (short circuit)  
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  
Output ripple..... < 20 mVRMS

**Observed authority requirements**

EMC..... 2014/30/EU  
LVD..... 2014/35/EU  
RoHS..... 2011/65/EU  
EAC..... TR-CU 020/2011  
EAC LVD..... TR-CU 004/2011