

SWITCHMODE POWER SUPPLY



- Mains voltage input
- Isolation 3.75 kVAC
- Adjustable output 5...24 VDC, max. 7 W
- Short-circuit protection
- Thermal overload protection
- Standard 11-pole relay socket



Applications:

General power supply for smaller measurement systems requiring fixed stabilized 24 VDC, or supply for any other sensors, transmitters or as a general variable power supply 5 to 24 VDC. • Two units may be connected in series for plus / minus or higher output voltage.

Technical characteristics:

The unit is based on secondary switchmode technology enabling an adjustable output with a minimum loss of power. Isolation test voltage between input and output is 3.75 kVAC. This makes the unit suitable for PELV/SELV applications. The double-isolated safety transformer includes a 100°C thermal fuse which switches off the input before the transformer is overheated. When the temperature returns below 100°C the thermal fuse will automatically switch on the power supply.

Mounting:

The 2220 is for standard 11-pole socket mounting in all positions. To achieve maximum cooling, vertical position and a small distance (10 mm) between neighbouring units are recommended.

Input:

Standard supply voltages in accordance to the specifications. Galvanic isolation is ensured by the double-isolated safety transformer.

Output:

The output is adjustable from front potentiometer in the range 5...24 VDC. A green LED indicates active output. Short-circuit protection limits the current to typ. 2.2 Amp. Output is isolated by 3.75 kVAC from input.

Electrical specifications:

Specifications range:

(@-20°C to +60°C)

Common specifications:

Internal consumption max.....	4 W
Isolation test / operation	3.75 kVAC / 250 VAC
Transformer	EN 60 742
Temperature coefficient.....	0.05% / °C
Mains effect (±10%)	< ±30 mV
Transient stability (10%-max. load)	< 250 mV
EMC immunity influence	< ±0.5%
Relative air humidity.....	< 95% RH (non-cond.)
Dimensions (HxWxD).....	80.5 x 35.5 x 84.5 mm
Tightness	IP50
Weight	425 g

Input:

Input voltage.....	24 VAC ±10%
	110 VAC ±10%
	120 VAC ±10%
	230 VAC ±10%
Frequency.....	50...60 Hz

Output:

Output voltage.....	5...24 VDC ±5%
Output power	Max. 7 W
Output current	1 A / 5 VDC
	0.55 A / 12 VDC
	0.45 A / 15 VDC
	0.3 A / 24 VDC
Load effect, (10%-max. load).....	< 1.5% / A
Current limit (short circuit)	Typ. 2.2 A
Output ripple	< 20 mVRMS

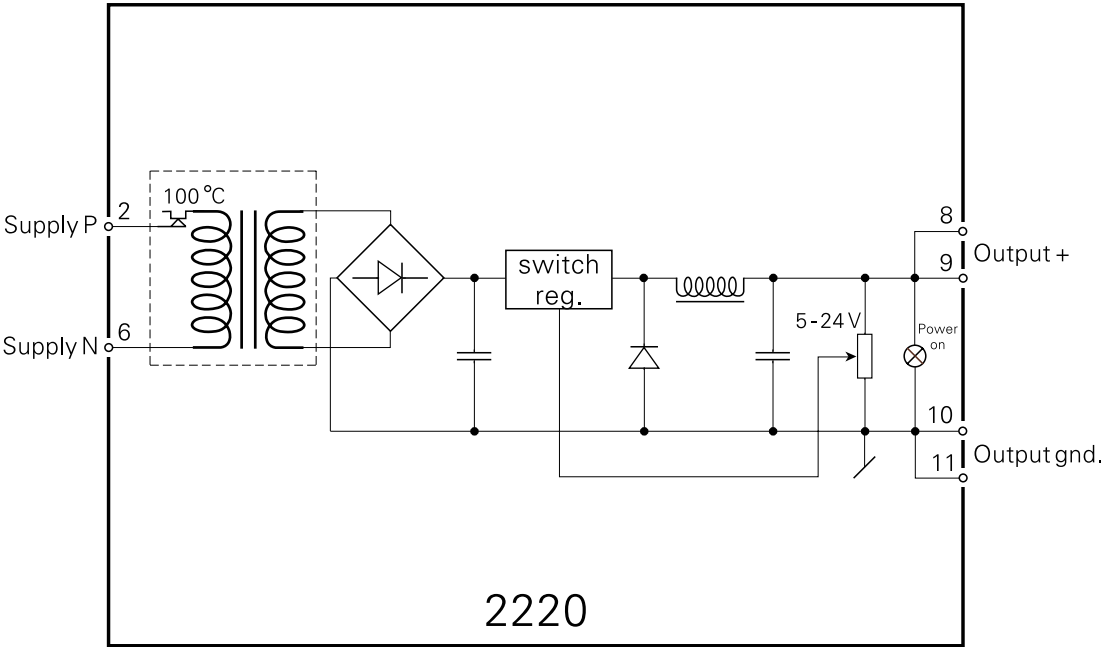
Observed authority requirements: Standard:

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

Order: 2220

Type	Version		Output	
2220	110 VAC	: A	Special (5...24 V)	: 0
	230 VAC	: B	24 VDC	: 1
	24 VAC	: D	15 VDC	: 2
	120 VAC	: F	12 VDC	: 3
			5 VDC	: 4

Block diagram:



Front layout:

