

SWITCHMODE POWER SUPPLY



- 230 or 115 VAC primary voltage
- 24 or 15 VDC output voltage
- Double isolation by 3.75 kVAC
- 48 Watt output power, short circuit-protected
- Thermal protection against overload
- DIN rail mounting on a standard 11-pole relay socket



Applications:

General 24 or 15 VDC supply for equipment that requires a stabilised DC voltage. • Separation of circuits in safety installations according to the PELV/SELV norm. • Two units can be connected in series to achieve a plus / minus supply or a higher output voltage. • The small mechanical dimensions of the switchmode power supply allow for a high DC output power, even in narrow spaces.

Technical characteristics:

The power supply is based on primary switchmode technology to achieve a high efficiency. Galvanic isolation between the primary and the secondary voltage is achieved through the double-isolated safety transformer. A thermal fuse protects the input circuit when the internal temperature exceeds 100°C.

A 1 A fuse on the input protects the switchmode power supply against a short overload. The DC output is protected against a short circuit by an electronic current limiter that activates at an output current of 2.5 A. A green LED in the front of the module indicates an active primary voltage.

Mounting:

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:

AC power supply according to the specifications.

Output:

DC voltage of 24 or 15 V. An internally mounted potentiometer allows for a $\pm 5\%$ adjustment of the output voltage.

Electrical specifications:

Specifications range:

-20°C to +60°C

Common specifications:

Max. consumption.....	60 VA
Efficiency.....	$\geq 80\%$
Fuse.....	1 A SB / 250 VAC
Thermal overload protection.....	100°C
Isolation, test / operation.....	3.75 kVAC / 250 VAC
Power derating.....	1% / °Camb. (Tamb. > 40°C)
Transient stability (10%-max. load)...	< 500 mV
Temperature coefficient.....	0.05%/°C
Effect of supply voltage change ($\pm 10\%$).....	< 1%
EMC immunity influence.....	< $\pm 0.5\%$
Relative air humidity.....	< 95% RH (non-cond.)
Dimensions (HxWxD)	
(D is without pins).....	80.5 x 35.5 x 84.5 mm
Protection degree.....	IP30
Weight.....	210 g

Input:

Supply voltage.....	207...253 VAC
	102.4...132.2 VAC
Frequency.....	50...60 Hz

Output:

Output voltage.....	24 or 15 VDC
Adjustment.....	$\pm 5\%$
Output power (max.).....	48 W
Output current.....	2 A / 24 VDC
	2 A / 15 VDC
Load stability (0-max.load).....	< 1.5% / A
Electronic current limit.....	Nom. 2.5 A
Output ripple.....	≤ 40 mVRMS (100 kHz)

GOST R approval:

VNIIM, Cert. no. Available on Request

Observed authority requirements:

EMC 2004/108/EC.....	EN 61326-1
LVD 2006/95/EC.....	EN 61010-1
PELV/SELV.....	IEC 364-4-41 and EN 60742

Standard:

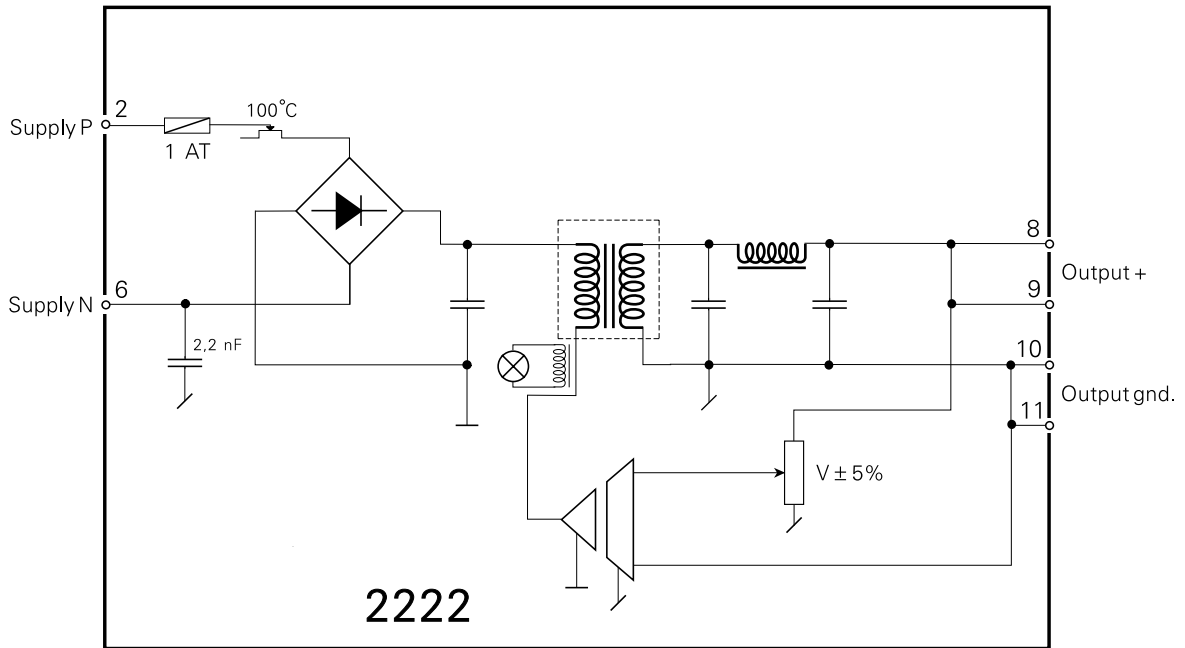
EN 61326-1
EN 61010-1
IEC 364-4-41 and EN 60742

Order : 2222

Type	Input	Output
2222	115 VAC : A	24 VDC : 1
	230 VAC : B	15 VDC : 2

For pricing, or any further, information please contact Omni Instruments Ltd
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Block diagram:



Front layout:

