

SWITCHMODE VOLTAGE REGULATOR 2229

- **AC/DC input voltage**
- **Adjustable output 5...24 VDC, max. 40 W**
- **Adjustable from external potentiometer**
- **Short-circuit protection**
- **Thermal overload protection**
- **Standard 11-pole relay socket**



Applications:

General voltage regulator for external transformer used in connection with measurement systems requiring fixed stabilized 24 VDC or supply for any other sensors, transmitters or a general variable voltage regulator in the range 5 to 24 VDC.

- Used as a power efficient pre-regulator for 5 VDC linear regulator (e.g. from 32 V to 8 V).
- Used as adjustable power supply controlled from external potentiometer.

Technical characteristics:

The unit is based on switchmode technology enabling an adjustable output with a minimum loss of power. A rectifier bridge in the input allows free choice of polarity for the DC input.

Mounting:

The 2229 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:

AC or DC input voltages in accordance with the specifications. Input is not galvanically isolated from output.

Output:

The output is adjustable from front potentiometer in the range 5...24 VDC or from an external potentiometer (potm. 20 kW). Using external potentiometer the front potentiometer must be adjusted to the maximum wanted output plus 20%. A green LED indicates active output. Short-circuit protection limits the current to typ. 5.8 Amp. Short-circuit will zero the voltage to minimize the power. When removing the short-circuit the output will turn back to the adjusted value.

Electrical specifications:

Specification range:

(@-20°C to +60°C)

Common specifications:

Internal consumption max.....	10 W
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	0...90% RH (non-condensing)
Dimensions (HxWxD).....	80.5 x 35.5 x 84.5 mm
Tightness.....	IP 30
Weight	170 g

Input:

Input voltage (AC).....	Max. 28 VAC
Min. VAC = (Vout + 5) / 1.2	
Input voltage (DC).....	Max. 40 VDC
Min. VDC = (Vout + 5)	
Frequency.....	50...60 Hz

Output:

Output voltage.....	5...24 VDC ±10%
Output power	max. 40 W
Output current	max. 2.5 A / 5 VDC
max. 2.5 A / 12 VDC	
max. 2.5 A / 15 VDC	
max. 1.7 A /24 VDC	
Load effect, (0-max.load)	< 1.5% / A
Current limit (short circuit)	Typ. 5.8 A
Output ripple	< 20 mV RMS

Observed authority requirements: Standard:

EMC 89/336/EEC, Emission	EN 50 081-1
Immunity.....	EN 50 082-2

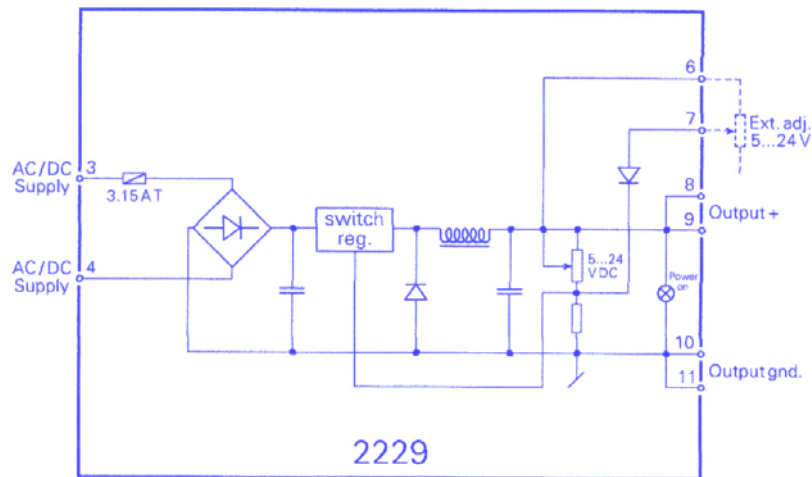
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Order: 2229

Type	Version	Output
2229	AC or DC : A	Special (5...24 V) : 0
		24 VDC : 1
		15 VDC : 2
		12 VDC : 3
		5 VDC : 4

Block diagram:



Front Layout:



2229Y101-UK (9830)