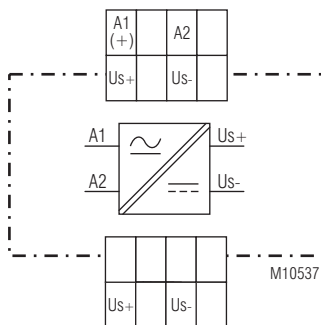




- Space saving in industrial cabinets because compact construction type
- Universal use with wide voltage range
- High efficiency
- According to IEC/EN 60 950, EN 61 558
- Protection class II, according to EN 61 558-1
- Secondary voltage DC 24 V up to 200 mA
- Short circuit protection and overload protection
- Width: 22,5 mm

Circuit Diagram



Approvals and Markings



Application

For DC-voltage 24 V

Function

The switched power supply provides a controlled DC voltage of 24 V \pm 5 %.

Indication

LED green: on when secondary voltage connected

Notes

With large capacitive load the power supply detects short circuit on power up. If the secondary voltage of 24 V is not reached within 64 ms the power supply switches off. After 2 sec a new attempt is started.

Technical Data

Primary voltage:	AC/DC 85 ... 265 V
Voltage range	
AC:	85 ... 265 V
DC:	85 ... 300 V
Primary current at nominal voltage U_N:	
no-load operation	
at AC 230 V:	3,5 mA
at DC 230 V:	1 mA
at AC 110 V:	5 mA
at DC 110 V:	2 mA
Efficiency:	approx. 80 %
Secondary voltage:	DC 24 V \pm 5 %
	The terminal U_{S+} , U_{S-} is double. Internally these terminals are connected in parallel.
	200 mA continuously
Secondary current:	
Secondary current continuously	
at primary current	
AC/DC 85 ... 265 V:	max. 200 mA, ϑ_u max. 50 °C
AC 230 V:	max. 250 mA, ϑ_u max. 40 °C
Short time current, 5 s	
at AC 100 V:	max. 350 mA
at AC 230 V:	max. 450 mA
Residual ripple at max. load:	0,1 %
Current limiting:	electronic short circuit protection and overload protection

Technical Data

General Data

Nominal operating mode:	continuous operation	
Temperature range:	- 20 ... + 50°C	
clearance and creepage distance		
rated impulse voltage / pollution degree:	6 kV / 2	IEC 60 664-1
EMC		
electrostatic discharge (ESD):	8 kV (air)	IEC/EN 61 000-4-2
HF irradiation:	10 V / m	IEC/EN 61 000-4-3
Fast transients:	4 kV	IEC/EN 61 000-4-4
surge voltage between wires for power supply:	1 kV	IEC/EN 61 000-4-5
HF-wire guided:	10 V	IEC/EN 61 000-4-6
Interference suppression:		EN 61 000-6-3
Degree of protection:		
Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
Enclosure:	thermoplastic with VO behaviour according to UL Subjekt 94	
Vibration resistance:	amplitude 0,35 mm frequency 10 ... 55 Hz, IEC/EN 60 068-2-6 20 / 050 / 04 IEC/EN 60 068-1	
Climate resistance:		
Terminal designation:	EN 50 005	
Wire connection		
Screw terminals		
(fixed):	1 x 4 mm ² solid or 1 x 2,5 mm ² stranded ferruled (isolated) or 2 x 1,5 mm ² stranded ferruled (isolated) or 2 x 2,5 mm ² solid	
Insulation of wires or sleeve length:	8 mm	
Wire fixing:	Plus-minus terminal screws M3,5 box terminals with wire protection	
Mounting:	DIN-rail	IEC/EN 60 715
Weight:	125 g	

Dimensions

Width x height: x depth: 22,5 x 90 x 121 mm

Standard Type

LG 5596 AC/DC 85 ... 265 V	50 / 60 Hz
Article number:	0064165
• Secondary voltage:	DC 24 V
• Primary nominal voltage U_N :	AC/DC 85 ... 265 V
• Width:	22,5 mm

Ordering Example

LG 5596	---	50 / 60 Hz	
			Nominal frequency
			Primary voltage
			Type