

AC/DC Power Supplies

TIW Series, 6 & 12 Watt

CE CB Scheme

Features

- ◆ High efficiency switching power supplies
- Easy installation into standard flush boxes
- Fully encapsulated plastic housing
- Dust and waterproof to IP 67
- Protection class II
- Safety approval to EN 60950-1 EN 60335-1
- ◆ Universal input range 93 to 264 VAC
- Regulated output voltage (models from 3.3 to 24 VDC)
- ◆ Operating temp. range -25°C to +50°C
- Short circuit and overload protection
- 3-year product warranty



The TIW series is a new range of small size DC-power supplies which have been designed particularly for applications in home and office installations.

The compact modules cases fit in the standardized in-wall flush boxes or also can be mounted on walls. For connection there are models available with flying wires or with screw terminals.

The power supplies comply fully with the safety and EMC standards requested for commercial and residential class II installations. Typical applications are powering of electric devices used in home automation and in security systems like i.e. DC-motors, controllers, indicators, etc.

Models					
Order Code	Output Voltage	Output Current			
TIW 06-103	3.3 VDC	1.2 A			
TIW 06-105	5.0 VDC	1.0 A			
TIW 06-106	6.0 VDC	1.0 A			
TIW 12-112	12 VDC	1.0 A			
TIW 12-115	15 VDC	0.8 A			
TIW 12-124	24 VDC	0.5 A			



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Input Specifications				
Input voltage range	- nominal		115 – 230 VAC	
	rangesoutput current derating at o	pperation below 115 VAC	93 – 264 VAC (to 115	
Input frequency	output content detailing at o	peralient beleve 110 v/ (c	47 – 63 Hz	
Zero load power consumption	on		tba.	
External input fuse required		10-30 watt models:	2.0 A slow blow	
Harmonic limits			EN 61000-3-2, C	Class A
Output Specifications	5			
Voltage set accuracy			±2 %	
Regulation	- Input variation - Load variation (0–100%)		1 % max. 2 % max.	
Ripple and noise (20Mhz B	andwidth)	3.3 – 6.0 VDC models: other models:	<300 mVp-p <500 mVp-p	
Overload protection by curr	rent limit	3.3 – 6.0 VDC models: other models:	<2.5 A <3.5 A	
Short circuit protection			foldback (automo	atic recovery)
Capacitive load			tba.	
General Specification	ns			
Operating Temperature			−25°C to +50°C	
Over temperature protection			built in	
Reliability, calculated MTBF	@ 25°C acc. to IEC 61709		tba.	
Humidity (non condensing)			5 – 95 % rel. H r	max.
Efficiency (at 230 VAC)		3.3 & 5.0 VDC models: other models:	/ 1	
Switching frequency			tba.	
Hold-up time	- Vin = 115 VAC - Vin = 230 VAC		5 ms typ. 20 ms typ.	
Start-up time			<1s	
Safety standards	safety of information technolElectronic equipment for usSafety of household and si	e in power installations	IEC/EN 60950-1 EN 50178 EN 60335-1	
Safety approvals (pending)	– CB report	* *	IEC/EN 60950-1	
Electromagnetic compatibili	ty (EMC), emissions - Conducted RI suppression - Radiated RI suppression	on input	EN 61000-6-3 EN 55022 class EN 55022 class	
Electromagnetic compatibili	ty (EMC), immunity - Electrostatic discharge (ESE - Radiated RF field immunity - Electrical fast transient / bu - Surge immunity line - grout - Surge immunity line - line - Surge immunity output - Immunity to conducted RF of Mains voltage dips and interests.	urst immunity nd disturbances	EN 61000-6-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-5 EN 61000-4-6 EN 61000-4-6	4 kV / 8 kV 3 V/m 1 kV / 0.5 kV 2 kV 1 kV 0.5 kV 3 V 30 % /10 mS, 60 % /100 mS

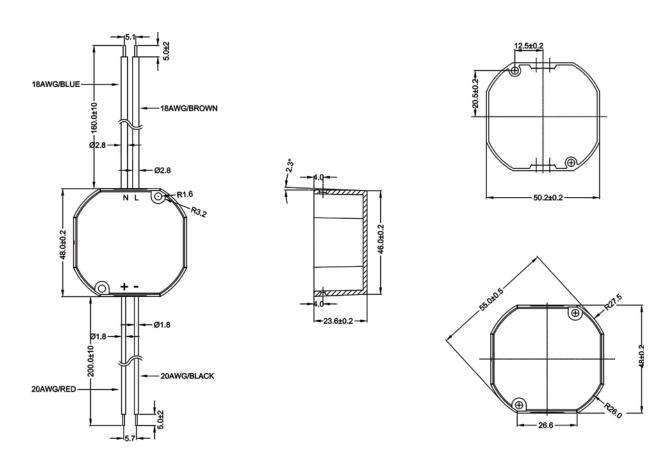
All specifications valid at nominal input voltage, full load and $+25^{\circ}\text{C}$ after warm-up time unless otherwise stated.



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General Specifications				
Protection class Casing protection		class II as per IEC/EN 61140 IP 67		
				Environment
Connection wires	– Inpurt – Output	2 x 160 mm (brown / blue) AWG 18 2 x 200 mm (red / black) AWG 20		
Weight		80 g (2.7 oz)		

Outline Dimensions



Specifications can be changed any time without notice.

