TRACO[®] POWER

AC/DC Power Supplies

TIW Series, 6 & 12 Watt

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
- <u>3-year product warranty</u>



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 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 – ranges – output current derating at operation below 115 VAC		115 – 230 VAC 93 – 264 VAC (universal input) 1 %/VAC (to 115 VAC)		
Input frequency		47 – 63 Hz			
Zero load power consumption			tba.		
External input fuse required (recommended values) 10 - 30 Watt models:		10 – 30 Watt models:	2.0 A slow blow		
Harmonic limits			EN 61000-3-2, Class A		
Output Specification	S				
Voltage set accuracy			±2 %		
Regulation	– Input variation – Load variation (0–100%)		1 % max. 2 % max.		
Ripple and noise (20 Mhz	Bandwidth) 3.3 – 6.0 VDC models: other models:		<300 mVp-p <500 mVp-p		
Overload protection by cur	verload protection by current limit 3.3 - 6.0 VDC models: other models:		<2.5 A <3.5 A		
Short circuit protection		foldback (automatic recovery)			
General Specificatio	ns				
Operating Temperature		−25°C to +50°C			
Over temperature protection		built in			
Reliability, calculated MTTF	@ 25°C acc. to IEC 61709		tba.		
Humidity (non condensing)			5 – 95 % rel. H max.		
Efficiency (at 230 VAC)	3.3 & 5.0 VDC models: other models:		71		
Hold-up time	- Vin = 115 VAC - Vin = 230 VAC			5 ms typ. 20 ms typ.	
Start-up time			<1s		
Safety standards	 safety of information technology equipment Electronic equipment for use in power installations Safety of household and similar electrical appliances 		IEC/EN 60950-1 EN 50178 EN 60335-1		
Safety approvals	– CB report according IEC/EN 60950-1 – GS certification		www.tracopower.com/products/tiw-cb.pdf www.tracopower.com/products/tiw-gs.pdf		
Electromagnetic compatibility (EMC), emissions – Conducted RI suppression on input – Radiated RI suppression		EN 61000-6-3 EN 55022 class B EN 55022 class B			
Electromagnetic compatibil	ity (EMC), immunity – Electrostatic discharge (ESD) – Radiated RF field immunity – Electrical fast transient / burst – Surge immunity line – ground – Surge immunity line – line – Surge immunity output – Immunity to conducted RF dist – Mains voltage dips and interr	urbances	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 61000-4-5 EN 61000-4-6 EN 61000-4-11	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°C after warm-up time unless otherwise stated.

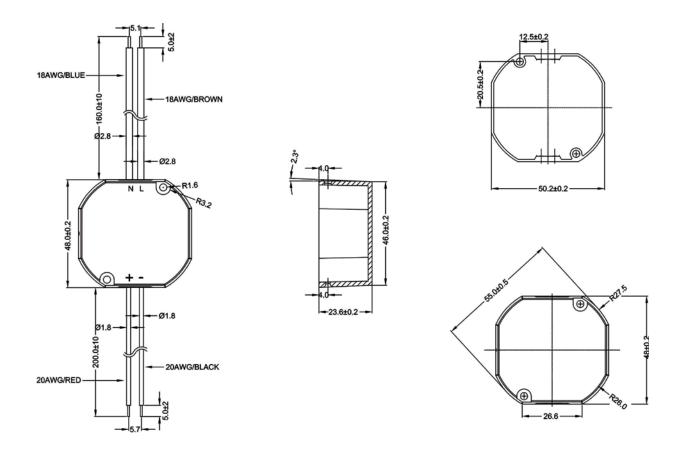


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General Specifications

class II as per IEC/EN 61140
IP 67
D68-2-6Part 2, test Fe: Vibration (sinusoidal)8-2-27Part 2, test Ea: Shock
2 x 160 mm (brown / blue) AWG 18 2 x 200 mm (red / black) AWG 20
80 g (2.7 oz)
1

Outline Dimensions



Specifications can be changed any time without notice.



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