

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Metal Case Power Supplies

TXH Series, 120-480 Watt





Features

- Compact U-bracket and enclosed power supplies
- Screw terminal block
- Very high efficiency up to 93 %
- No internal fan for 120 W & 240 W models.
- Universal input 90 264 VAC
- Adjustable output voltage
- ◆ EMI/EMC compliance with EN 61000-6-3 and EN 61000-6-1
- Compliance to EN 61000-3-2 (PFC)
- Short circuit and overvoltage protection
- 3-year product warranty



The TXH series is a family of power supplies in metal enclosure, designed for a wide range of cost critical applications. The very high efficiency of up to 93% admits of a compact design with free air convection coouling for the 120 and 240 Watt models. The units are equiped with screw terminal blocks and are easy to install in

These power supplies have universal input and comply with European EMC standards and the Low Voltage Directive (LVD).

Models with Single Output					
Order code	Output power	Output Voltage [VDC]		Output current	Efficiency
	max.	nominal *	adjustable	max.	typ. at 230 VAC
TXH 120-112		12	11.4 – 13.2	10 A	90 %
TXH 120-124	120 Watt	24	22.8 - 26.4	5.0 A	91 %
TXH 120-148		48	45.6 - 52.0	2.5 A	92 %
TXH 240-112		12	11.4 – 12.6	20 A	90 %
TXH 240-124	240 Watt	24	22.8 - 25.2	10 A	92 %
TXH 240-148		48	45.6 - 50.4	5.0 A	93 %
TXH 360-112		12	10.8 – 13.2	30 A	89 %
TXH 360-124	360 Watt	24	21.6 - 26.4	15 A	91 %
TXH 360-148		48	44.0 - 51.0	7.5 A	93 %
TXH 480-112		12	10.8 – 13.2	40 A	88 %
TXH 480-124	480 Watt	24	21.6 – 26.4	20 A	90 %
TXH 480-148		48	43.2 – 50.4	10 A	91 %

^{* 36} VDC output voltage models on request.



Input Specifications	S		
Input voltage	nominalAC range (universal input)DC range		100 – 240 VAC 90 – 264 VAC 120 – 370 VDC
Input frequency			47 – 63 Hz
Earth leakage current (24	10 VAC / 63 Hz)	360 W models: other models:	300 μA max. 500 μA max.
Input current at full load	– at 115 VAC / 230 VAC	120 W models: 240 W models: 360 W models: 480 W models:	1.2 A typ. / 0.6 A typ. 2.3 A typ. / 1.1 A typ. 3.6 A typ. / 1.8 A typ. 5.1 A typ. / 2.5 A typ.
Recommended circuit bre (characteristic C) or slow		120 W models: 240 W models: 360 W models: 480 W models:	
Output Specification	ons		
Voltage set accuracy			±2 % max.
Output voltage adjustmen	nt range		details see table page 1
Regulation	Input variationLoad variation (0–100%)		1 % max. 1 % max.
Minimum load			not required
Ripple and noise (20 MH	Iz bandwidth) [mVp-p] max.	Models: 120 W 240 W 360 W 480 W	12 VDC 24 VDC 48 VDC 120 240 480 120 200 200 150 200 200 100 200 300
Hold-up time			10 ms min.
Current limitation			130 - 150 % foldback, auto recovery
Short circuit protection		360 & 480 W models: 120 & 240 W models:	indefinite, auto recovery no auto recovery (power disconnect required)
Overvoltage protection b	y Zener diode	360 & 480 W models: 120 & 240 W models:	120 % of Vout typ. auto recovery no auto recovery (power disconnect required)
Overtemperature protecti	on		for 360 & 480 W models only, auto recovery
Capacitive load, [µF] max	(.	Models: 120 W 240 W 360 W 480 W	12 VDC 24 VDC 48 VDC 23'000 10'000 470 23'000 10'000 470 85'000 48'000 13'000 180'000 75'000 25'000
General Specificati	ons		
Temperature ranges	OperatingStorage (non operating)	180/360/120 W models: other models:	-25°C to +70°C -10°C to +70°C -25°C to +85°C
Derating	Ambient temperatureLow input voltage		2.5 %/K above +50°C low temperature derating for TXH480-112 model: 2%K below 5°C below 100 VAC: 1%/V
Temperature coefficient	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		0.03 %/K
Humidity (non condensing	a)		95 % rel max.
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All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.



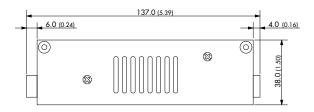
General Specification	ns		
Switching frequency (pulse	width modulation PWM)	120 & 240 W models: 360 W models: 480 W models:	100 kHz typ. 75 kHz typ. 62.5 kHz typ.
Isolation voltage (60 sec.)	- Input / Output	120 & 240 W models: 360 & 480 W models:	4'000 VAC 3'000 VAC
	– Input / Case	120 & 240 W models: 360 & 480 W models:	2'000 VAC 1'500 VAC
	- Output / Case	oco or 100 TT medala.	500 VAC
Reliability /calculated MTBF (MIL-HDBK-217F, at +25°C,		120, 240 & 360 W models: 480 W models:	
Electromagnetic compatibility (EMC), Emissions	y – Conducted input RI suppression – Harmonic current emissions		EN 55022, class B, FCC part 15, level B IEC/EN 61000-3-2 class B
Electromagnetic compatibility (EMC), Immunity			EN 55024
Degree of protection			class I
Safety standards			UL 60950-1, IEC/EN 60950-1
Safety approvals	- UL/cUL 60950-1 - CB report according	to IEC 60950-1	www.ul.com -> certifications -> File e188913 www.tracopower.com/products/txh-cb.pdf
Environment	– Vibration		3 axes, sine sweep, 10-500Hz, 2g, 0.1 oct/min
Environmental compliance	- Reach - RoHS		www.tracopower.com/products/txh-reach.pdf RoHS directive 2011/65/EU
Altitude during operation		120 / 240 & 360 W models: 480 W models:	up to 4′000 m (13′120 ft) approved up to 3′000 m (9′840 ft) approved

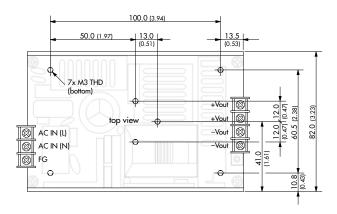
Outline Dimensions

TXH 120 models

Weight: 390 g (13.8 oz)

Optional Cover		
TXH 120-COV	Cover incl. screws for TXH 120 models	





Max mounting screw penetration: 2.5 mm (0.1)



Outline Dimensions

TXH 240 models

Weight: 580 g (20.5 oz)

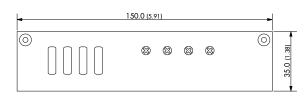
Optional Cover

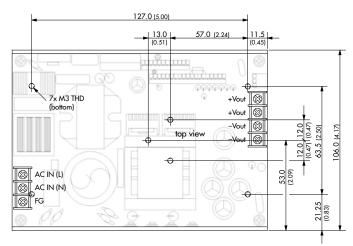
TXH 240–COV Cover incl. screws for TXH 240 models

Max mounting screw penetration: 2.5 mm (0.10)

Terminal rating: 25A

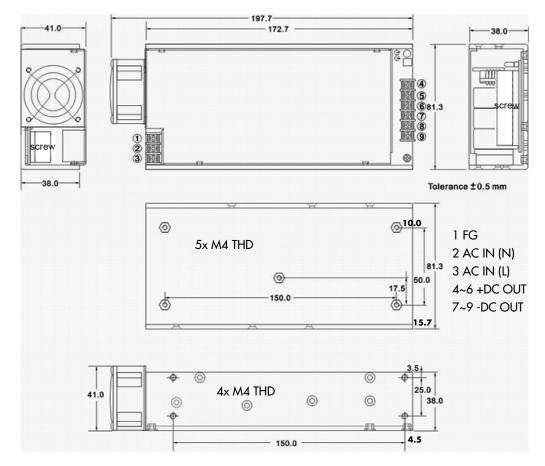
At higher current connection has to be splitted





TXH 360 models

Weight: 750 g (26 oz)



Dimensions in [mm], () = Inch Tolerances $\pm 0.8 \ (\pm 0.03)$ Mounting hole pich tolerances $\pm 0.5 \ (\pm 0.02)$ Max mounting screw penetration: 2.5 mm (0.10) Terminal rating: 25A At higher current connection has to be splitted



Outline Dimensions

TXH 480 models

Weight: 1050 g (37 oz)

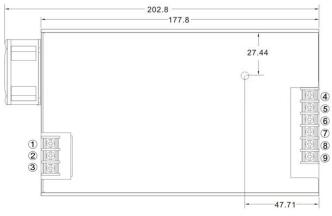
Mating connector:

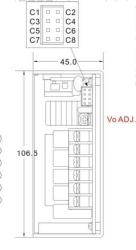
Housing: JST PHDR-08VS Crimp: JST SPHD-002T-P0.5

Connection cable with 500mm

flying leads included!

Control connector		
C 1	+ Sense	
C2	- Sense	
С3	Remote Control: open = On, short = Off	
C4	Remote Control. Open – On, short – On	
C 5	DC-OK: 4-6 VDC = On, 0-1 VDC = Off	
C6	GND	
C7	+5 VDC aux. ±10%, 0.6 A max.	
C8	GND aux.	

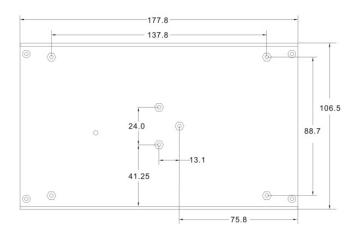




Input terminal			
<u> </u>	AC (N)		
2	AC (L)		
3	FG		

Output terminal		
4-6	+ Vout	
7-9	- Vout	





Max mounting screw penetration: 2.5 mm (0.10) Terminal rating: 25A

At higher current connection has to be splitted

Dimensions in [mm], () = Inch Tolerances $\pm 0.8 \ (\pm 0.03)$ Mounting hole pich tolerances $\pm 0.5 \ (\pm 0.02)$

Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.tracopower.com