

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 cooling for the 120 and 240 Watt models. The units are equipped with screw terminal blocks and are easy to install in any equipment.

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

Input voltage	– nominal	100 – 240 VAC
	– AC range (universal input)	90 – 264 VAC
	– DC range	120 – 370 VDC
Input frequency		47 – 63 Hz
Earth leakage current (240 VAC / 63 Hz)	360 W models: other models:	300 μ A max. 500 μ A max.
Input current at full load	– at 115 VAC / 230 VAC	120 W models: 1.2 A typ. / 0.6 A typ. 240 W models: 2.3 A typ. / 1.1 A typ. 360 W models: 3.6 A typ. / 1.8 A typ. 480 W models: 5.1 A typ. / 2.5 A typ.
Recommended circuit breaker (characteristic C) or slow blow fuse	120 W models: 240 W models: 360 W models: 480 W models:	3.15 A 5 A 6.3 A 10 A

Output Specifications

Voltage set accuracy		± 2 % max.
Output voltage adjustment range		details see table page 1
Regulation	– Input variation – Load variation (0–100%)	1 % max. 1 % max.
Minimum load		not required
Ripple and noise (20 MHz bandwidth) [mVp-p] max.	Models:	12 VDC 24 VDC 48 VDC
	120 W	120 240 480
	240 W	120 200 200
	360 W	150 200 200
	480 W	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 by Zener diode	360 & 480 W models: 120 & 240 W models:	120 % of Vout typ. auto recovery no auto recovery (power disconnect required)
Overtemperature protection		for 360 & 480 W models only, auto recovery
Capacitive load, [μ F] max.	Models:	12 VDC 24 VDC 48 VDC
	120 W	23'000 10'000 470
	240 W	23'000 10'000 470
	360 W	85'000 48'000 13'000
	480 W	180'000 75'000 25'000

General Specifications

Temperature ranges	– Operating	120 W models: –25°C to +70°C 480 W models: –20°C to +70°C other models: –10°C to +70°C
	– Storage (non operating)	–25°C to +85°C
Derating	– Ambient temperature	2.5 %/K above +50°C low temperature derating for TXH480-112 model: 2%/K below 5°C
	– Low input voltage	below 100 VAC: 1%/V
Temperature coefficient		0.03 %/K
Humidity (non condensing)		95 % rel max.

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.