

- Compact enclosed power supplies
- Screw terminal block
- Very high efficiency up to 93 %
- 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 over voltage protection
- 3-Year warranty



The TXH 360 series is a family of power supplies in metal enclosure, designed for a wide range of cost critical applications. The high efficiency of up to 93% is achieved through an innovative design with internal fan. 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				
Order Code	Output Power (max.)	Output Voltage (adjustable)	Output Current (max.)	Efficiency (typ.)
TXH 360-112	360 W	12 VDC (10.8 – 13.2 VDC)	30 A	89 %
TXH 360-124	360 W	24 VDC (21.6 – 26.4 VDC)	15 A	91 %
TXH 360-148	360 W	48 VDC (44.0 – 51.0 VDC)	7.5 A	93 %

Note: 36 VDC output model is available on request

### Input Specifications

Input voltage	– AC Input – DC Input	90 – 264 VAC (with derating see p. 3) 120 – 370 VDC
Input frequency		47 – 63 Hz
Input current at full load	– at 115 VAC / 230 VAC	4.0 A max. / 2.0 A max.
Recommended input fuse		T 6.3 A / 250 VAC
Leakage current (at 240 VAC, 63 Hz)		0.3 mA max.
Inrush current	– at 115 VAC / 230 VAC	30 A max. / 60 A max.
Power factor	– at 115 VAC / 230 VAC	0.98 min. / 0.93 min. (active power factor correction)

### Output Specifications

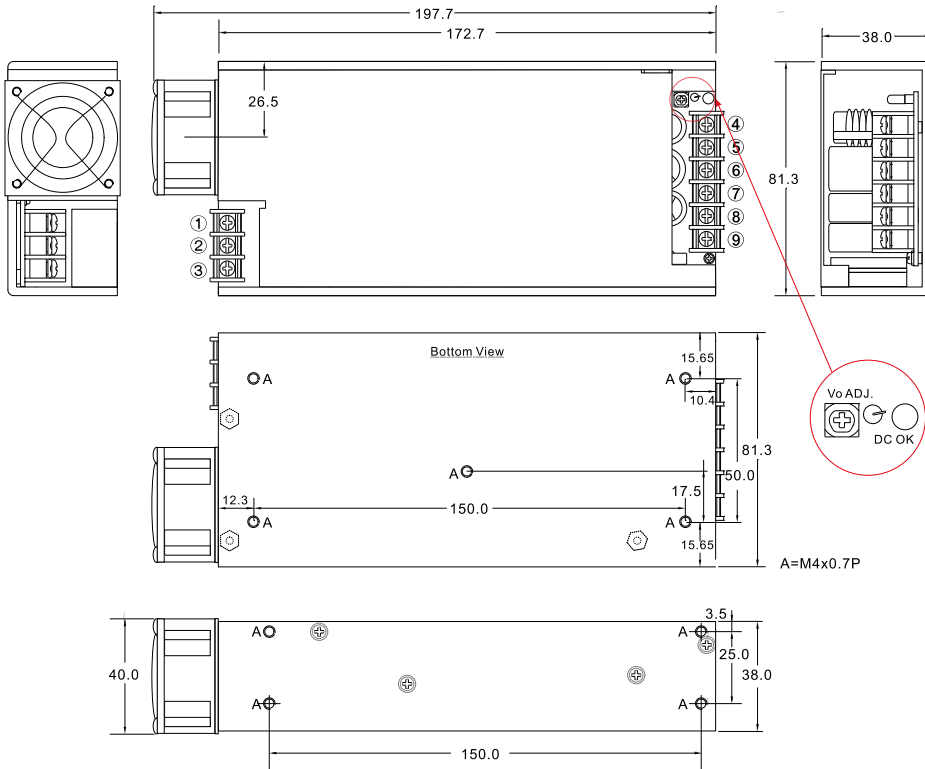
Voltage accuracy		±2 % typ.
Voltage adjustment		internal potentiometer see model table
Regulation	– Input variation (Vin min. to Vin max.) – Load variation (5 to 100 %)	1.0 % typ. 1.0 % typ.
Minimum load		1 % of max. load
Hold-up time (at input voltage ≥ 115 VAC)		12 ms min.
Ripple and Noise (20 MHz bandwidth) (measured with 0.1µF & 47µF parallel capacitor)	12 VDC model: other models:	150 mVp-p max. 200 mVp-p max.
Current limitation		130 – 150 % foldback, auto recovery
Short circuit protection		indefinite, auto recovery
Overvoltage protection (zener diode)		120 % of Vout, auto recovery
Overtemperature protection		auto recovery
Capacitive load	12 VDC model: 24 VDC model: 48 VDC model:	85'000 µF max. 48'000 µF max. 13'000 µF max.

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

## General Specifications

Temperature ranges	<ul style="list-style-type: none"> <li>– Operating</li> <li>– Storage</li> </ul>	–25°C to +70°C max. (with derating) –25°C to +85°C max.
Output power derating	<ul style="list-style-type: none"> <li>– Temperature</li> <li>– Low input voltage</li> </ul>	2.5 %/K above 50°C 1 %/V below 100 VAC
Temperature coefficient		±0.03 %/K
Cooling		internal fan (variable fan speed, temperature regulated)
Humidity (non condensing)		95 % rel. H max.
Altitude during operation		2000 m max.
Switching frequency (at 230 VAC)		75 kHz typ.
Isolation	<ul style="list-style-type: none"> <li>– Input to Output</li> <li>– Input to Ground</li> <li>– Output to Case</li> </ul>	3000 VDC 1500 VDC 500 VAC
MTBF (MIL-HDBK-217F, at 25 °C ground benign)		120'000 h
Vibration		10-500 Hz, 2g 10 min./1 cycle 60 min each along X, Y, Z axes.
Protection class		class I
Safety standards	<ul style="list-style-type: none"> <li>– Certification documents</li> </ul>	IEC/EN 60950-1 UL 60950-1 <a href="http://www.tracopower.com/overview/txh360">www.tracopower.com/overview/txh360</a>
EMC emissions	<ul style="list-style-type: none"> <li>– Conducted &amp; Radiated input suppression</li> </ul>	EN 55032 class B
EMC immunity	<ul style="list-style-type: none"> <li>– Electrostatic discharge (ESD)</li> <li>– Radiated RF field immunity</li> <li>– Electrical fast transient / burst immunity</li> <li>– Surge immunity</li> <li>– Immunity to conducted RF disturbances</li> <li>– Magnetic field immunity</li> <li>– Mains voltage dips and interruptions</li> </ul>	EN 55024 IEC/EN 61000-4-2, ±4 kV contact / ±8 kV, criteria A IEC/EN 61000-4-3, 3 V/m, criteria A IEC/EN 61000-4-4, ±1 kV, criteria A IEC/EN 61000-4-5, ±1 kV L to N, 2 kV L/N to PE, criteria A IEC/EN 61000-4-6, 3 V, criteria A IEC/EN 61000-4-8, 1 A/m, criteria A IEC/EN 61000-4-11, 95 %, 25 periods, perf. criteria C 30 %, 25 periods, perf. criteria C 95 %, 0.5 periods, perf. criteria B
Case material		metal enclosure
Environmental compliance	<ul style="list-style-type: none"> <li>– Reach</li> <li>– RoHS</li> </ul>	<a href="http://www.tracopower.com/info/reach-declaration.pdf">www.tracopower.com/info/reach-declaration.pdf</a> RoHS directive 2011/65/EU

### Outline Dimensions



Pinout	
Pin	Single
1	PE
2	AC IN (N)
3	AC IN (L)
4	+Vout
5	+Vout
6	+Vout
7	-Vout
8	-Vout
9	-Vout

Weight: 746 g (26.31 oz)

Dimensions in mm  
 Tolerances:  $\pm 0.5$  mm  
 Pin tolerances:  $\pm 0.1$  mm