

- Compact 200 Watt metal cased power supplies
- Fully convection cooled power supplies
- Cost efficient design
- High operating temperature up to 65°C
- Universal AC input 90 - 264 VAC
- Active power factor correction >0.95
- Withstand 300 VAC surge input for 5 sec.
- Adjustable output voltage
- Over current limitation and short circuit protection
- 3-year product warranty



The TXM 200 series is a family of 200 Watt encased AC/DC power supplies designed for cost critical applications. It extends the existing TXM series which ranged from 15 to 150 Watt with an additional 200 Watt series. With a compact metal case and screw terminal block connections, they are easy to install in any equipment. There are three models of single output voltages from 12 VDC to 48 VDC. They also feature an universal input and comply with EN 55032 class B and the latest IEC/UL 60950-1 edition to cover a wide range of applications.

Models				
Order Code	Output Power (max.)	Output Voltage	Output Current (max.)	Efficiency (typ.)
TXM 200-112	200 Watt	12 VDC	16.7 A	87 %
TXM 200-124		24 VDC	8.4 A	88 %
TXM 200-148		48 VDC	4.2 A	88.5 %

### Input Specifications

Input voltage range	– AC range (universal input) – DC range	90 – 264 VAC (47 – 63 Hz) 120 – 370 VDC
Input current at full load		3 A max.
Inrush current	– at 115 VAC – at 230 VAC	30 A typ. 50 A typ.
Surge voltage (5 s max.)		300 VAC
Zero load power consumption		4 W max.
Leakage current	– Input to output – Input to case	250 $\mu$ A max. 3.50 mA max
Power factor	– at 115 VAC – at 230 VAC	0.98 min. (active power correction) 0.95 min. (active power correction)

### Output Specifications

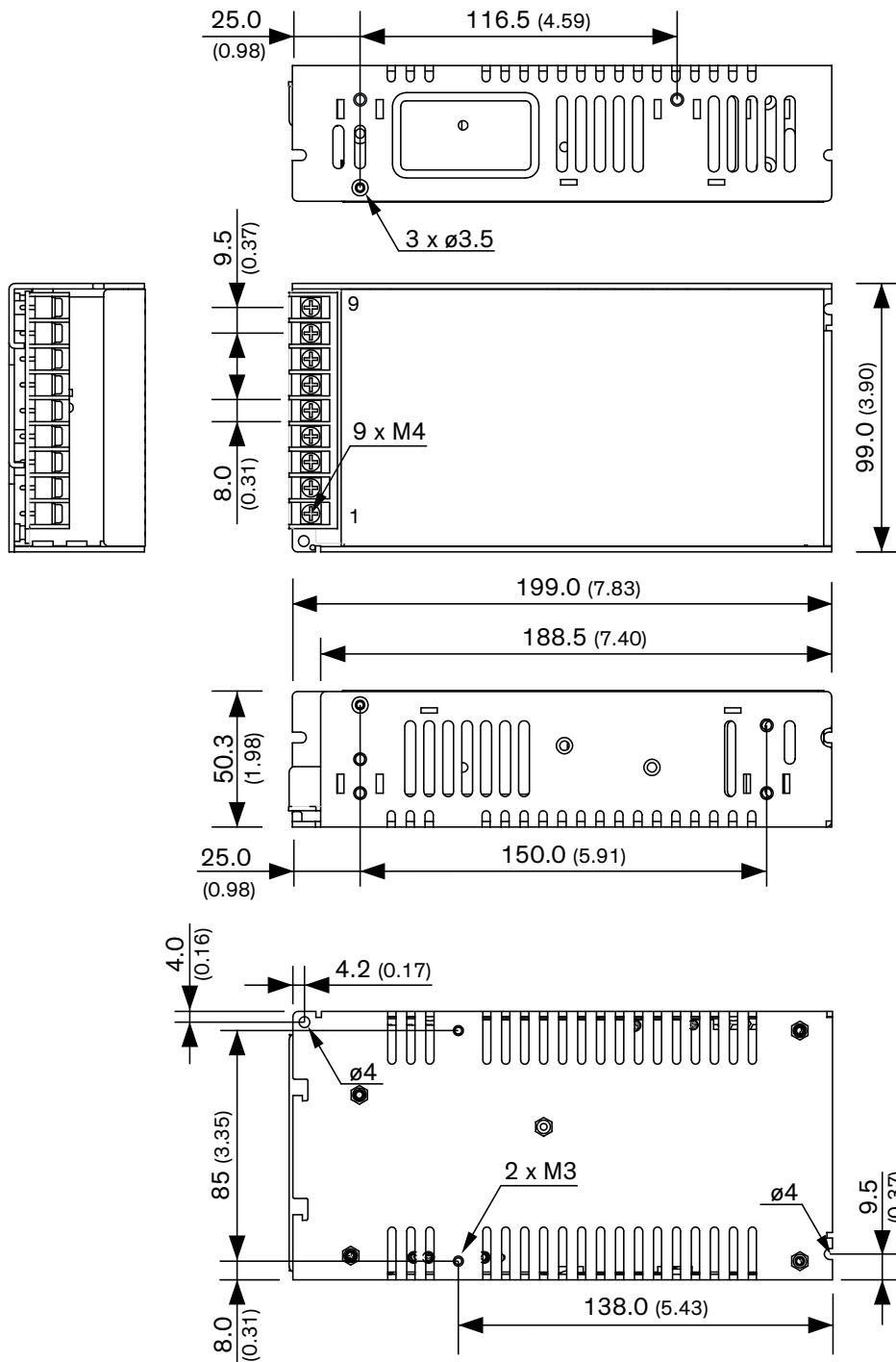
Voltage set accuracy	– at 230 VAC	12 Vout model: $\pm 2$ % max. other output models: $\pm 1$ % max.
Voltage adjustment range		12 Vout model: 10 – 15.5 VDC 24 Vout model: 20 – 27.2 VDC 48 Vout model: 42 – 53 VDC
Regulation	– Input variation (85 - 264 VAC) – Load variation (0 - 100%)	12 Vout model: 0.5% max. 2.0% max. other output models: 1.0% max
Minimum load		not required
Temperature coefficient		$\pm 0.03$ %/K max.
Hold-up time	– at 115 VAC / 230 VAC	16 ms min.
Start-up time	– at 115 VAC – at 230 VAC	4 s max. 2 s max.
Rise time		10 ms max.
Ripple and noise (20 MHz Bandwidth)		12 Vout model: 150 mVp-p max. (w. cap. 0.1 $\mu$ F // 10 $\mu$ F) 24 Vout model: 200 mVp-p max. (w. cap. 0.1 $\mu$ F // 10 $\mu$ F) 48 Vout model: 150 mVp-p max. (w. cap. 0.1 $\mu$ F // 10 $\mu$ F)
Transiente response	– Peak deviation (50 - 100% load change)	12 Vout model: 2.9 % Vout max. 24 Vout model: 2.1 % Vout max. 48 Vout model: 1.3 % Vout max.
Over current limitation		105 – 150% of Iout
Short circuit protection		continuous, automatic recovery (hiccup mode)
Capacitive load		12 Vout model: 66'000 $\mu$ F max. 15 Vout model: 33'000 $\mu$ F max. 24 Vout model: 8'800 $\mu$ F max.

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

<b>General Specifications</b>		
<b>Temperatur ranges</b>	– Operating – Storage	–20°C to +65°C (with derating) –40°C to +85°C
<b>Humidity (non condensing)</b>	– Operating – Storage	20 – 90 % rel. H 10 – 95 % rel. H
<b>Derating</b>	– Temperature – Low input voltage	3.3 %/K above 50°C 0.8 %/V below 115 VAC
<b>Altitude during operation</b>		5000 m max.
<b>Isolation voltage</b>	– Input to output (60 s) – Input to case (60 s) – Output to case (60 s)	3000 VAC 1500 VAC 500 VAC
<b>Isolation resistance</b>		10 MOhm
<b>Reliability</b>	– Calculated MTBF at +25°C acc. to MIL-HDBK-217F	100'000 h
<b>Protection class</b>		class I
<b>EMC emissions</b>	– Conducted and radiated input emission – Harmonic current emissions	EN 55032, class B EN 61000-3-2, class D
<b>EMC immunity</b>	– Electrostatic discharge (ESD)  – Radiated immunity – Fast transiente – Surge  – Conducted immunity – Magnetic field immunity – Voltage dips and interruptions	EN 55024 EN 61000-4-2, ±8 kV air, ±4 kV contact perf. criteria A EN 61000-4-3, 3 V/m perf. criteria A EN 61000-4-4, ±1 kV perf. criteria A EN 61000-4-5, ±1 kV line to line, ±2kV line to ground, perf. criteria B EN 61000-4-6, 3 Vrms perf. criteria A EN 61000-4-8, 1 A/m perf. criteria A EN 61000-4-11, see below
<b>Voltage dip according to EN 61000-4-11</b>		>95%, 0.5 periods, perf. criteria A 30%, 25 periods, perf. criteria B
<b>Voltage interruptions according to EN 61000-4-11</b>		>95%, 250 periods, perf. criteria B
<b>Safety standards and certification</b>	– Certification documents	IEC/EN/UL 60950-1 2nd edition <a href="http://www.tracopower.com/overview/txm">www.tracopower.com/overview/txm</a>
<b>Environmental compliance</b>	– Reach – RoHS	<a href="http://www.tracopower.com/info/reach-declaration.pdf">www.tracopower.com/info/reach-declaration.pdf</a> RoHS directive 2011/65/EU
<b>Connection</b>		Screw terminal

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

**Dimension**



Pin-Out	
Pin	Function
1	AC (N)
2	AC (L)
3	GND
4	-Vout
5	-Vout
6	-Vout
7	+Vout
8	+Vout
9	+Vout

**Weight:** 700 g (24.69 oz)

Dimensions in mm, ( ) = inch  
Outside dimension tolerance:  $\pm 1.0$  mm

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