

## INSTALLATION INSTRUCTIONS

### TXM 100/150/200 Series Switching Power Supply

Order Code	AC-Input Voltage Range	Output Power max.	DC-Output	Recommended Circuit breaker
TXM 100-105	Rated: 100-240Vac 50-60Hz  Operation: 90-264Vac 47-63Hz	100 W	5V / 20A	10A (Characteristic C)
TXM 100-112		102 W	12V / 8.5A	
TXM 100-115		105 W	15V / 7.0A	
TXM 100-124		101 W	24.0V / 4.2A	
TXM 100-148		106 W	48.0V / 2.2A	
TXM 150-112		150 W	12.0V / 12.5A	
TXM 150-115		150 W	15.0V / 10.0A	
TXM 150-124		151 W	24.0V / 6.3A	
TXM 150-148		154 W	48.0V / 3.2A	
TXM 200-112		200 W	12.0V / 16.7A	
TXM 200-124		202 W	24.0V / 8.4A	
TXM 200-148		202 W	48.0V / 4.2A	

Total output power must not exceed specified max output power.

Output is adjustable by potentiometer with an insulated screwdriver. If the output voltage is higher than nominal, the maximum output current should be reduced accordingly.

Rated Input Current	@ Vin=115VAC	@ Vin=230VAC
TXM 100	1.0 A typ.	0.5 A typ.
TXM 150	1.6 A typ.	0.8 A typ.
TXM 200	2.0 A typ.	1.0 A typ.

Output Voltage Adjustment Range:	±10%
Operating Temperature Range: (with natural air convection cooling)	-20°C – +60°C max (TXM 100 Series) -20°C – +70°C max (TXM 150 Series) -20°C – +65°C max (TXM 200 Series)
Output Power Derating:	above +40°C → 2.50%/K (TXM 100 Series) above +40°C → 1.67%/K (TXM 150 Series) above +50°C → 3.33 %/K (TXM 200 Series)  below V <sub>in</sub> 100VAC → 1.00%/V (TXM 100 Series) below V <sub>in</sub> 120VAC → 1.15%/V (TXM 150 Series) below V <sub>in</sub> 115VAC → 0.80%/V (TXM 200 Series)
Storage Temperature Range:	-30°C – +85°C max (TXM 100/150 Series) -40°C – +85°C max (TXM 200 Series)
Connections:	Screw type terminal Recommended tightening torque 0.5 to 0.7Nm
Terminal for Wiring:	Y or Ring shape cable lug recommended (inner diameter: 3.8mm min., outer diameter: 8.0mm max.)
Case Material:	Aluminium base and nickel plated steel cover (TXM 100 & 150 Series) Aluminium base and zinc plated steel cover (TXM 200 Series)
Mounting Inserts:	M3, M4 (see datasheet for position size and max. length)

## **Safety Instructions:**

- Before installation read these instructions carefully and completely. This installation instruction cannot claim for every possible example of installation, operation or maintenance. Further information's are obtainable from your local distributor office or from the product data sheet which can be downloaded from the Internet at <http://tracopower.com>.
- The power supplies are constructed in accordance with the safety requirements of IEC/EN/UL62368-1. They fulfil the requirements of the Low Voltage Directive (LVD) and carries the CE-mark. They are UL and cUL approved in accordance with UL62368-1 (recognised).
- Before any installation, maintenance or modification work ensure that the main switch is switched off and prevented from being switched on again. Non-observance, touching of any live components or improper handling of this power supply can result in death, severe personal injury or substantial property damage. Proper and safe operation is dependent on proper storage, handling, installation and operation.
- Compliance with the relevant national regulations (in the USA, Europe or other countries) must be ensured. Before operation is started the following conditions must be ensured:
  - ❖ Connection to mains supply in compliance with national regulations (VDE0100 and EN50178).
  - ❖ By use of stranded wires, all strands must be fastened in the terminal blocks. (Potential danger of contact with the case)
  - ❖ Power supply and mains cables must be sufficiently fused.
  - ❖ Degree of protection = I according to IEC536. The non-fused protective earth connection must be connected to the PE terminal (Protection Class I).
  - ❖ All output wires must be rated for the power supply output current and must be connected with the correct polarity.
  - ❖ Sufficient cooling must be ensured.
- **Never work on the power supply if power is supplied!** Risk of electric arcs and electrical shock, which can cause death, severe personal injury or substantial property damage.
- **Warning:** Hazardous voltages and components storing a very substantial amount of energy are present in this power supply during normal operating conditions. However, these are inaccessible. Improper handling may result in an electric shock or serious burns!  
**Do not open the power supply.**
  - ❖ Only trained personnel may open the power supply.
  - ❖ Do not introduce any objects into the power supply. The output voltage adjustment potentiometer may only be actuated using an insulated screwdriver.
  - ❖ Keep away from fire and water

## **Installation Instructions:**

- This power supply is designed for professional indoor systems. In operation the power supply must not be accessible. It may be installed and put into service by qualified personnel only.
- Do not operate without PE connection! To comply with EMC and safety standards (CE mark, approvals) the power supply must be operated only if PE terminal is connected to the non-fused earth conductor.
- The correct mounting position for optimal cooling performance must be observed. **Do not cover any ventilation holes.** Leave a free space of minimum 3mm on the sides and 50mm above of the power supply. Observe power derating (see data sheet).
- The internal fuse is not accessible, as it may not be replaced by the user. If this internal fuse has blown, the power supply has an internal defect and, for safety reasons, must be shipped to your distributor.
- **Recycling:** The unit contains elements that are suitable for recycling, and components that need special disposal. You are therefore requested to make sure that the power supply will be recycled environment friendly at the end of its service life.