

INSTALLATION INSTRUCTIONS

TXH 060, TXH 120, TXH 240 Switching Power Supply

Order Code	Nominal AC-Input Voltage Range	AC-Input Voltage Range	Output Power max.	DC-Output	Recommended Circuit breaker		
TXH 060-105	100 – 240VAC 50/60Hz Universal Input	90 – 264VAC 47 – 63Hz 120 – 370VDC	50 Watt	5.0Vdc / 10.0A	3A		
TXH 060-112			60 Watt	12.0Vdc / 5.0A			
TXH 060-115			60 Watt	15.0Vdc / 4.0A			
TXH 060-124			60 Watt	24.0Vdc / 2.5A			
TXH 060-148					60 Watt	48.0Vdc / 1.25A	5A (Characteristic C)
TXH 120-112					120 Watt	12.0Vdc / 10.0A	
TXH 120-124					120 Watt	24.0Vdc / 5.0A	
TXH 120-148					120 Watt	48.0Vdc / 2.5A	5A (Characteristic C)
TXH 240-112					240 Watt	12.0Vdc / 20.0A	
TXH 240-124					240 Watt	24.0Vdc / 10.0A	
TXH 240-148			240 Watt	48.0Vdc / 5.0A			

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.

Input current:	@ $V_{in} = 115VAC$	@ $V_{in} = 230VAC$	Power Consumption	@ $V_{in} = 115VAC$	@ $V_{in} = 230VAC$
➤ TXH 060	<2A max.	<1A max.	➤ TXH 060	63W typ. for 5V model, 70W typ. for others	61W typ. for 5V model, 68W for others
➤ TXH 120	<2A max.	<1A max.	➤ TXH 120	136 W typ.	133 W typ.
➤ TXH 240	<3A max.	<1.5A max.	➤ TXH 240	265 W typ.	255 W typ.
Output Voltage Adjustment range:	±5%				
Operating temperature range: Natural Air Convection Cooling	-30°C – +70°C max → (TXH 060-1xx) -22°F – +158°F max → (TXH 060-1xx) -25°C – +75°C max → (TXH 120-1xx) -13°F – +167°F max → (TXH 120-1xx) -10°C – +70°C max → (TXH 240-1xx) +14°F – +158°F max → (TXH 240-1xx)				
Output Power Derating above +50°C:	above +50°C → 2.5%/K (for TXH 060-105 above +40°C) above 122°F → 2.5%/K (for TXH 060-105 above +104°F)				
Storage temperature range: Non operating	-25°C – +75°C max -13°F – +167°F max				
Input Connections:	Screw type terminal COMBICON. Recommended tightening torque 0.5 to 0.7Nm (4.5 to 6.2lb.in.)				
Output Connections:	Screw type terminal COMBICON. Recommended tightening torque 0.5 to 0.7Nm (4.5 to 6.2lb.in.)				
Terminal for wiring:	Y or Ring shape recommended. (max. inside diameter = 3.0mm / max. outside diameter = 5.0mm)				
Case material:	Aluminium base				
Mounting inserts:	7 x M3 (see datasheet for different mounting positions and max screw length)				

Safety Instructions:

- Before installation read these instructions carefully and completely. This installation instruction cannot account for every possible condition of installation, operation or maintenance. Further information can be obtained from your local distributor's office or from the product data sheet, which can be downloaded, from the Internet at www.tracopower.com/products/txh.pdf.
- 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.
 - ❖ 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 50mm (2in.) above and on the sides 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.