

Technaxx Solar Table Power Plant TX-250 User Manual

Model: TX-250 (5082)

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Technaxx Solar Table Power Plant TX-250. Please read this manual thoroughly before using the product and retain it for future reference.

The Technaxx TX-250 is a 2-in-1 balcony power plant with a table function, integrating a 400W PV system with a pre-mounted micro-inverter. It is designed for easy plug & play setup on balconies or terraces, offering adjustable solar panel angles for optimized energy yield.

SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the device:

- Ensure all electrical connections are made by qualified personnel and comply with local regulations.
- Do not attempt to disassemble or repair the micro-inverter or solar panel yourself. Contact qualified service personnel.
- Keep the product away from flammable materials and sources of extreme heat.
- Ensure the installation location is stable and can support the weight of the unit.
- Avoid touching electrical components when the system is operational or exposed to sunlight.
- Disconnect the system from the main power supply before performing any maintenance or cleaning.
- This product is designed for outdoor use and is IP67 water and dust resistant. However, avoid submerging it in water.

WHAT'S IN THE BOX

The Technaxx Solar Table Power Plant TX-250 package includes the following components:

- Solar Table (main frame and legs)
- PV Module (Solar Panel)
- Micro-Inverter (pre-mounted with WiFi)
- Connection Cable (5m)
- Assembly Hardware and Tools (if applicable, based on "Teilvormontiert")

Please check all components upon unpacking to ensure nothing is missing or damaged.

SETUP AND INSTALLATION

The Technaxx TX-250 is designed for quick and uncomplicated setup due to its pre-assembled components. Follow these steps for installation:

1. **Unpacking and Inspection:** Carefully unpack all components. Inspect the solar panel, micro-inverter, and table frame for any signs of damage during transit.



Image: The Technaxx Solar Table Power Plant TX-250, showing its primary configuration with the solar panel angled

upwards for optimal sun exposure.

2. **Assembly of Table Frame:** Assemble the table legs and frame according to the included quick start guide. The system is partially pre-assembled, simplifying this step.



Image: The Technaxx Solar Table Power Plant TX-250 configured as a flat table, demonstrating its dual functionality.

3. **Positioning:** Place the solar table in a location that receives maximum direct sunlight throughout the day. Consider the adjustable angle feature for optimal sun exposure. Ensure the surface is level and stable.



Image: The solar table positioned on a balcony, illustrating a typical installation scenario and its connection to a power outlet.

4. **Connecting the Micro-Inverter:** The micro-inverter is pre-mounted. Connect the solar panel to the micro-inverter if not already connected. Then, connect the micro-inverter's output cable to a standard household power outlet using the provided connection cable. This is a "Plug & Play" system.



Image: Detailed view of the micro-inverter mounted underneath the solar panel, highlighting the electrical connections.

5. **Adjusting the Angle:** Adjust the tilt angle of the solar panel ($20^{\circ}/30^{\circ}/35^{\circ}$) to maximize sun exposure throughout the day or season. Refer to the specific mechanism for angle adjustment.



Image: The solar table installed on a rooftop, demonstrating its adaptability to various outdoor environments and its angled position for energy generation.

OPERATING INSTRUCTIONS

Once installed and connected, the Technaxx TX-250 operates automatically:

- **Automatic Power Generation:** The solar panel converts sunlight into DC electricity, which the micro-inverter then converts into AC electricity suitable for your household grid. This power is fed directly into your home's electrical system, reducing your reliance on grid power.
- **WiFi Monitoring:** The integrated micro-inverter features WiFi connectivity. Use the corresponding mobile application (details typically provided in a separate quick start guide or on the manufacturer's website) to monitor your system's performance, energy yield, and operational status in real-time.
- **Angle Adjustment for Optimization:** Periodically adjust the solar panel's tilt angle to match the sun's position throughout the seasons for maximum energy harvesting.
- **Table Functionality:** When not actively optimizing for solar gain, the unit can be used as a functional outdoor table, providing space for 6-8 people.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your solar table:

- **Cleaning the Solar Panel:** Clean the surface of the solar panel regularly with a soft cloth and water to remove dust, dirt, leaves, or bird droppings. A clean panel ensures maximum sunlight absorption. Avoid abrasive cleaners or harsh chemicals.
- **Checking Connections:** Periodically inspect all electrical connections and cables for any signs of wear, damage, or loose connections. Ensure the power cable is securely plugged into the outlet.
- **Structural Integrity:** Check the table frame and legs for stability and any signs of corrosion or damage. Tighten any loose screws or bolts as needed.
- **Winter Care:** In areas with heavy snowfall, clear snow from the solar panel to allow for continued energy generation.

TROUBLESHOOTING

If you encounter issues with your Technaxx Solar Table Power Plant TX-250, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power output / Low power generation	<ul style="list-style-type: none">◦ Insufficient sunlight◦ Dirty solar panel◦ Loose electrical connection◦ Micro-inverter error◦ Grid power outage	<ul style="list-style-type: none">◦ Ensure panel is in direct sunlight and angle is optimized.◦ Clean the solar panel surface.◦ Check all cable connections, ensure they are secure.◦ Check micro-inverter status indicator (refer to inverter manual for specific codes).◦ Verify grid power is available.
WiFi monitoring not working	<ul style="list-style-type: none">◦ Poor WiFi signal◦ Incorrect app configuration◦ Inverter not powered	<ul style="list-style-type: none">◦ Ensure the solar table is within range of your WiFi router.◦ Reconfigure the WiFi settings in the monitoring app.◦ Verify the system is receiving power from the solar panel or grid.
Physical damage to panel or frame	<ul style="list-style-type: none">◦ Impact or environmental factors	<ul style="list-style-type: none">◦ Contact Technaxx customer support for repair or replacement options. Do not attempt self-repair.

If the problem persists after attempting these solutions, please contact Technaxx customer support.

TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	5082 (TX-250)
Product Dimensions	172.2 x 113.4 x 80 cm
Weight	32.5 Kilograms
Wattage	400 Watt (PV System)
Input Voltage	65 Volts (DC from PV)
Connectivity	WLAN (WiFi)
Connector Type	Type J 3-pin (for grid connection)
Adjustable Angles	20° / 30° / 35°
Ingress Protection (IP) Rating	IP67 (Water and Dust Resistant)
Seating Capacity	6-8 persons (when used as a table)
Included Components	Solar Table, PV Module, Micro-Inverter



Image: Dimensional diagram of the Technaxx Solar Table Power Plant TX-250, indicating its length, width, and height.

WARRANTY AND SUPPORT

Technaxx provides a standard warranty for this product. For detailed warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official Technaxx website.

For technical support, troubleshooting assistance, or spare parts, please contact Technaxx customer service:

- **Website:** www.technaxx.de (or relevant regional website)
- **Email:** Refer to website for contact email.
- **Phone:** Refer to website for contact phone number.

When contacting support, please have your model number (TX-250 / 5082) and purchase date ready.

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