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› flex-energie Balcony Power Plant Complete Set User Manual

flex-energie feBKW1MK5

flex-energie Balcony Power Plant Complete Set User Manual

Model: feBKW1MK5

1. INTRODUCTION

The flex-energie Balcony Power Plant Complete Set is designed to help you generate your own green electricity and reduce your annual energy costs. This comprehensive kit includes a high-performance 450Wp solar module, an efficient Envertech EVT400-B inverter, and a 5-meter connection cable, providing an optimal solution for energy generation in private households.

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your balcony power plant.

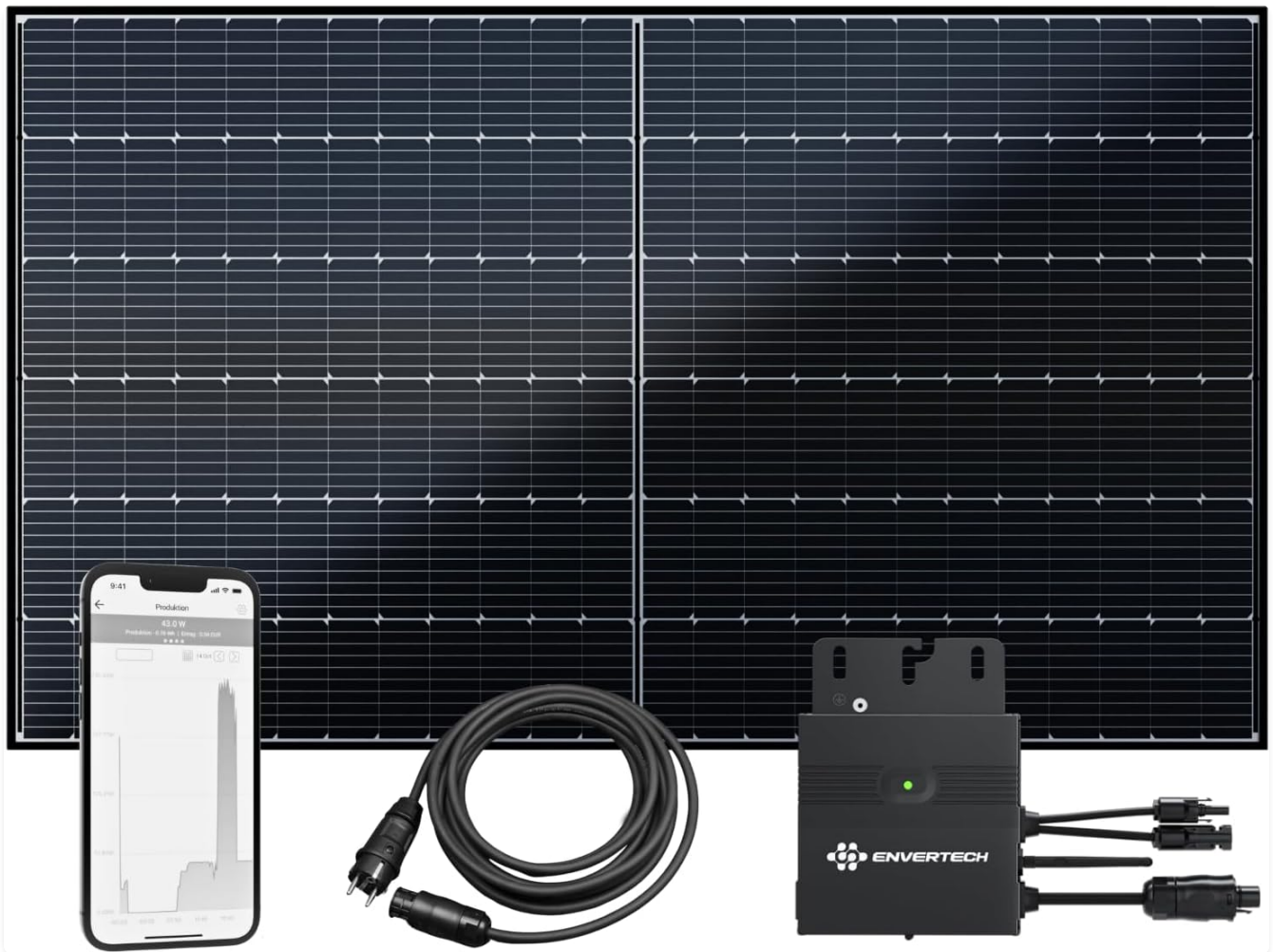


Image: Overview of the flex-energie Balcony Power Plant Complete Set, showing the solar panel, inverter, connection cable, and a smartphone displaying the monitoring app.

2. WHAT'S IN THE BOX

Your flex-energie Balcony Power Plant Complete Set includes the following components:

- 1x 450Wp JA Solar Bifacial Solar Module (JAM54D40 450LB)
- 1x Envertech EVT400-B Micro Inverter
- 1x 5m Connection Cable with Schuko Plug

RUNDUM PAKET



1x Wechselrichter Envertech EVT400-B

zur Wandlung in
Wechselstrom

Schuko Stecker

zur Einspeisung in
das Stromnetz

1x Solarmodul 450 Wp Bifazial

JA Solar JAM54D40 450LB

WiFi App

1 Stk.

1762 x 1134x30 mm, 22 kg

LIEFERUMFANG

Image: Diagram illustrating the included components: one 450Wp solar module, one Envertech EVT400-B inverter, and one 5m Schuko connection cable, along with the WiFi app icon.

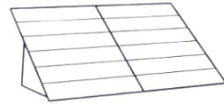
3. SETUP AND INSTALLATION

The flex-energie Balcony Power Plant is designed for quick and straightforward installation. Follow these steps for a successful setup:

- 1. Choose a Suitable Location:** Select an optimal location for your solar module, such as a balcony, terrace, or roof. Ensure the area receives maximum sunlight throughout the day and is free from significant shading.
- 2. Mount the Solar Module:** Securely attach the solar module to your chosen location. While this kit does not include mounting hardware, various accessories are available separately to suit different installation needs.
- 3. Connect to the Power Grid:** Connect the inverter to the solar module, then use the provided 5m cable with the Schuko plug to connect the system to a standard household power socket. The system is designed for plug-and-play operation.
- 4. Activate and Monitor:** Once connected, the system will begin generating electricity. For detailed monitoring of your energy production and savings, download and configure the associated WiFi app.

Note: For optimal performance, ensure the solar module is angled correctly towards the sun. Even on cloudy days, the N-Type technology of the solar module helps maximize energy gain.

EINFACHE MONTAGE



1

AN PASSENDEN ORT ANBRINGEN

Durch steckdosenfertige Lieferung ohne Handwerker



2

ANS STROMNETZ ANSCHLIESSEN

Mit zugehörigem Kabel jede Steckdose verwendbar



3

SELBST ERZEUGTEN STROM NUTZEN

Sofortige Versorgung deiner Geräte und Stromsparen

Image: Visual guide showing three steps for simple assembly: 1. Attach to a suitable location, 2. Connect to the power grid via a socket, 3. Utilize self-generated electricity.

4. OPERATING THE SYSTEM

Your flex-energie Balcony Power Plant operates automatically once connected to the grid and exposed to sunlight. The Envertech EVT400-B inverter converts the direct current (DC) from the solar module into alternating current (AC) suitable for household use.

Monitoring with the WiFi App

The system features a WiFi function for performance monitoring. Download the dedicated app for your PC, smartphone, or tablet to observe your energy production and savings in real-time. This allows you to track how much electricity is being generated and how much CO2 is being avoided.

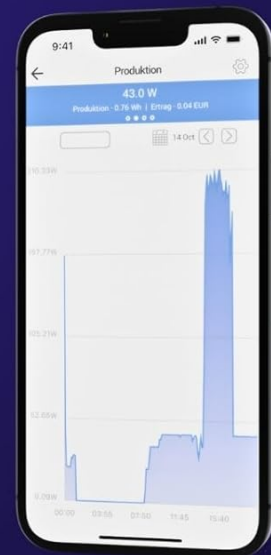
- **Real-time Data:** View current power output and historical data.
- **Savings Tracking:** Monitor your electricity cost savings.
- **CO2 Reduction:** See your contribution to environmental protection.

Important Note: The inverter's WiFi function typically requires sufficient sunlight to operate. If you are attempting to set up the WiFi connection during dusk or low light conditions, it may not connect immediately. Ensure adequate light for initial setup.

DEIN EIGENER GRÜNER STROM

**Das Kraftwerk für
dein Zuhause**

Einfache Installation
Nachhaltig & sauber
Für Balkon & Dach



**MIT APP FÜR PC,
SMARTPHONE & TABLET**

Beobachte in Echtzeit
deine Ersparnisse!

Image: Promotional image highlighting "Your Own Green Power" with a smartphone displaying the monitoring app, showing real-time energy production and savings. It also depicts a couple looking out at solar panels, emphasizing home use.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your balcony power plant. While the system requires minimal upkeep, consider the following:

- **Cleaning the Solar Module:** Periodically clean the surface of the solar module to remove dust, dirt, leaves, or

other debris that may accumulate and reduce efficiency. Use a soft cloth and water; avoid abrasive cleaners.

- **Visual Inspection:** Regularly inspect the solar module, inverter, and cables for any visible damage, loose connections, or signs of wear.
- **Shading Management:** Be aware that even partial shading (e.g., from passing people, trees, or nearby structures) can significantly reduce the power output of your solar module. Optimize placement to minimize shading throughout the day.

6. TROUBLESHOOTING

If you encounter issues with your flex-energie Balcony Power Plant, consider the following common troubleshooting steps:

- **No Power Output:**
 - Ensure the solar module is receiving sufficient sunlight.
 - Check all cable connections between the solar module, inverter, and the power socket. Ensure they are secure.
 - Verify that the power socket is functional.
- **App Connectivity Issues:**
 - Ensure the inverter is receiving enough sunlight for its WiFi module to power on. Try connecting during peak daylight hours.
 - Check your home WiFi network and ensure the signal strength is adequate at the inverter's location.
 - Restart your router and the inverter (by unplugging and replugging the AC cable) to refresh the connection.
 - Ensure your smartphone or device is compatible with the app and that the app is updated to the latest version.
- **Reduced Power Output:**
 - Check for any new shading sources (e.g., growing trees, new constructions) that might be affecting the solar module.
 - Clean the surface of the solar module from dirt or debris.
 - Verify that the inverter is operating correctly and not displaying any error indicators.

If these steps do not resolve the issue, please contact flex-energie customer support for further assistance.

7. SPECIFICATIONS

Key technical specifications for the flex-energie Balcony Power Plant Complete Set:

Component	Specification
Solar Module	JA Solar JAM54D40 450LB
Power Output (Solar Module)	450 Wp

Component	Specification
Module Type	Bifacial (double-sided sunlight absorption), N-Type (more power in bad weather)
Dimensions (Solar Module)	1762 x 1134 x 30 mm
Weight (Solar Module)	22 kg
Inverter	Envertech EVT400-B
Output Power (Inverter)	400W (Configurable)
Protection Class	IP67 Enclosure
Features	WiFi Function for performance monitoring, VDE-AR-N 4105 compliant
General	
Model Number	feBKW1MK5
Power Source	Solar Powered
Country of Origin	China

UNSERE KONFIGURATION

WECHSELRICHTER

ENVERTECH EVT400-B



400W

Ausgang (Konfigurierbar)



IP67

Gehäuse



WiFi Funktion

für Leistungsüberwachung



VDE-AR-N 4105

konform

SOLARMODUL

JASOLAR JAM54D40



450Wp

Leistung



Bifazial

beidseitige Sonnenlichtaufnahme



N-Type

mehr Leistung bei schlechtem Wetter

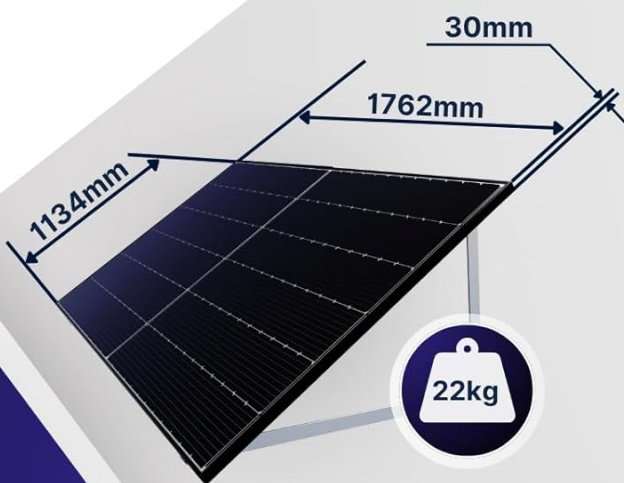


Image: Infographic detailing the specifications of the Envertech EVT400-B inverter (400W output, IP67, WiFi, VDE-AR-N 4105 compliant) and the JaSolar JAM54D40 solar module (450Wp, Bifacial, N-Type, dimensions, weight).

8. WARRANTY AND SUPPORT

flex-energie is committed to providing high-quality products and excellent customer service. We stand for quality and reliability, backed by 10 years of experience in solar energy solutions.

Customer Support

Should you have any questions or require assistance, our expert support team is available to help you before, during, and after your purchase. We offer specialized support from Germany and Austria to ensure you receive prompt and knowledgeable assistance.

For support inquiries, please refer to the contact information provided with your product documentation or visit the official flex-energie website.

EXPERTISE



AUS DEUTSCHLAND



Schneller & sicherer Versand
direkt aus Deutschland



Fachlicher Support
aus Deutschland und
Österreich



DU HAST FRAGEN?

Seit 10 Jahren dein
zuverlässiger Partner

Image: Infographic highlighting flex-energie's expertise from Germany, featuring fast and secure shipping, expert support from Germany and Austria, and a note about 10 years of reliable partnership.



NOCH FRAGEN?

**Wir helfen dir
gerne weiter!**

Vor, während und auch
noch nach dem Kauf!

Image: Two customer service representatives with headsets, one smiling, indicating readiness to assist with any questions.

