

Anker SOLIX A1782

Anker SOLIX F3000 Portable Power Station User Manual

Model: A1782

1. INTRODUCTION

The Anker SOLIX F3000 Portable Power Station is a versatile and robust power solution designed to provide reliable electricity for various needs, including home backup during power outages, outdoor adventures like camping and RV trips, and emergency situations. Featuring a 3,072Wh capacity, expandable up to 24kWh with additional batteries, and a powerful 3,600W continuous output, the F3000 ensures your essential appliances remain powered. It incorporates advanced Lithium Iron Phosphate (LFP) batteries for long-lasting performance and offers multiple recharging options, including ultra-fast 6,000W combined input from fuel generators and solar panels.



Figure 1: Anker SOLIX F3000 Portable Power Station with included charging cables.

2. SAFETY INFORMATION

Please read all safety instructions carefully before using the Anker SOLIX F3000. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or high temperatures.
- Keep the unit away from water, moisture, and direct sunlight.
- Ensure proper ventilation during use and charging.
- Use only recommended accessories and charging cables.
- Keep out of reach of children and pets.
- Avoid dropping or subjecting the unit to strong impacts.
- In case of malfunction, contact customer support immediately.

3. WHAT'S IN THE BOX

Verify that all items are present upon unboxing:

- Anker SOLIX F3000 Portable Power Station
- AC charging cable
- High-voltage solar charging cable
- User manual (this document)
- Warning notice
- Warranty card

4. PRODUCT OVERVIEW

The Anker SOLIX F3000 is designed for intuitive operation and robust performance. Familiarize yourself with its various ports and features.

4.1. Front Panel Features



Figure 2: Front panel of the Anker SOLIX F3000.

- **Main Display:** Shows battery percentage, input/output wattage, and estimated recharge/runtime.
- **AC Outlets:** Four 120V-20A outlets (2400W max continuous output) and one 120V-30A RV-style outlet (3600W max continuous output).
- **DC Outputs:** Two USB-C ports (100W output each) and two USB-A ports.
- **Car Socket:** One 12V car power outlet.

- **DC Port (Anderson):** One 30A Anderson output port for high-power DC devices.
- **Light Bar:** Integrated LED light bar with low, medium, and high settings for illumination.

4.2. Rear Panel Features

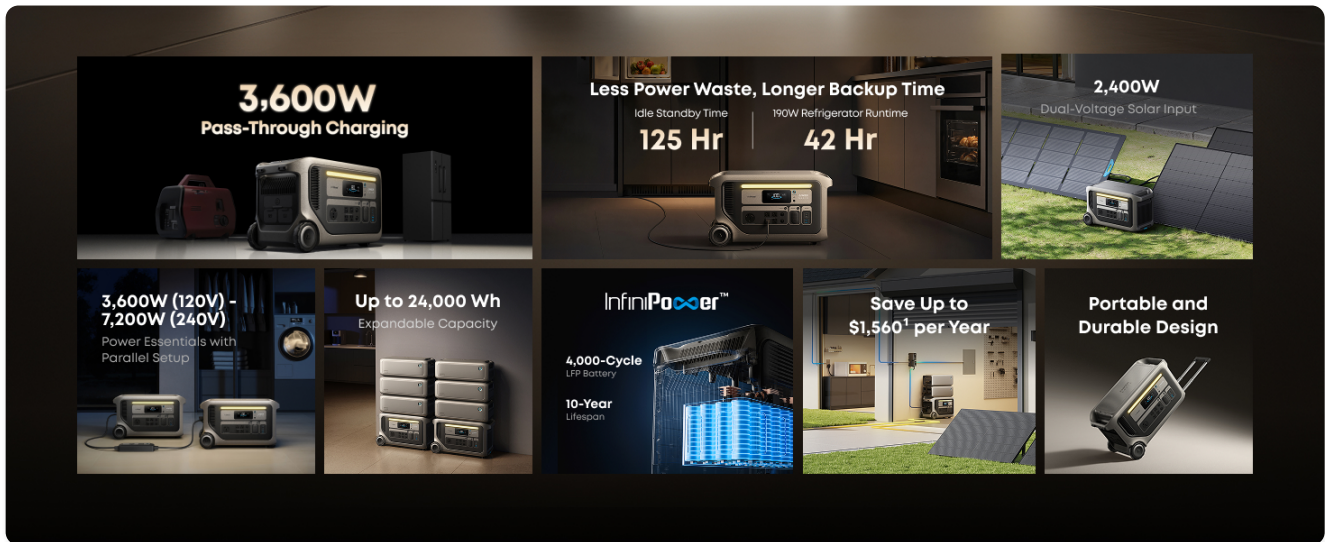


Figure 3: Rear panel of the Anker SOLIX F3000.

- **AC Input/Output Port:** Proprietary port for AC charging and pass-through functionality.
- **Expansion Battery Ports:** Connect up to three additional Anker SOLIX BP3000 Expansion Batteries to increase total capacity.

4.3. Side Panel Features

2,400W Max Dual Voltage Solar Input

165V + 60V ports support portable and
series-connected rigid panels.

30%
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Credit Eligibility

Note: 4 X 400W + Rigid Solar Panels

Figure 4: Side panel of the Anker SOLIX F3000 showing solar input ports.

- **Solar Input Ports:** Two dedicated solar input ports supporting dual voltage: one for 11-165V (17A Max) and another for 11-60V (17A Max). This allows for flexible solar panel configurations, including series connections for higher voltage.

4.4. Portability

The F3000 is designed for easy transport despite its robust capacity. It features integrated wheels and a telescoping handle, similar to luggage, allowing for convenient movement across various terrains.

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Video 1: Overview of the Anker SOLIX F3000 Portable Power Station, detailing its various ports, battery chemistry, and portability features like wheels and

5. SETUP

5.1. Initial Charging

Before first use, fully charge the Anker SOLIX F3000 using the provided AC charging cable. Connect the cable to the AC Input/Output port on the rear panel and plug it into a standard wall outlet. The display will indicate charging progress.

5.2. Connecting Expansion Batteries (Optional)

To expand the power station's capacity, connect Anker SOLIX BP3000 Expansion Batteries to the dedicated ports on the rear panel. The F3000 supports up to three expansion batteries, increasing total capacity to 12kWh (with one F3000 and three BP3000s) or up to 24kWh with two F3000 units and six BP3000s.

Power Your Essentials For Days

3kWh
10 Hr

24kWh
80 Hr



Figure 5: Anker SOLIX F3000 with stacked expansion batteries, illustrating expandable capacity.

6. OPERATING THE POWER STATION

6.1. Turning On/Off

Press the main power button on the front panel to turn the unit on or off. The display will illuminate upon activation.

6.2. Using AC/DC Outputs

Connect your devices to the appropriate AC or DC output ports on the front panel. Ensure the total wattage of connected devices

does not exceed the maximum continuous output of 3,600W (or 7,200W with two units in 240V mode).



Figure 6: Examples of appliances and their power consumption when powered by the Anker SOLIX F3000.

6.3. Solar Charging

Connect compatible solar panels to the solar input ports on the side panel. The F3000 supports up to 2,400W of solar input, allowing for rapid recharging outdoors. The dual voltage inputs (11-165V and 11-60V) provide flexibility for various panel types and configurations.



Figure 7: Anker SOLIX F3000 utilizing solar panels for recharging.

6.4. Generator Charging

The F3000 can be recharged using a fuel generator via the AC Input/Output port. It supports up to 3,600W AC recharging from a 120V generator, or up to 6,000W when combined with solar input for hyper-fast emergency recharging.

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Video 2: Demonstrates the fast recharging capabilities of the Anker SOLIX F3000, highlighting its ability to recharge quickly even during extended outages. (Source: AnkerDirect)

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Video 3: Illustrates how the Anker SOLIX F3000 can be used with a generator to provide quiet and clean power, reducing generator runtime. (Source: AnkerDirect)

6.5. App Control

The Anker SOLIX F3000 can be monitored and controlled via the Anker app, available for smartphones. The app provides real-time information on battery status, input/output wattage, and allows for various settings adjustments.

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Video 4: Demonstrates the features and benefits of the Anker SOLIX F3000 Portable Power Station, including its app connectivity. (Source: AnkerDirect)

6.6. Pass-Through Charging

The F3000 supports pass-through charging, meaning it can power connected devices while simultaneously recharging its internal battery. This feature is particularly useful during outages, allowing you to run appliances directly from the incoming power source (e.g., generator or solar) without interruption.

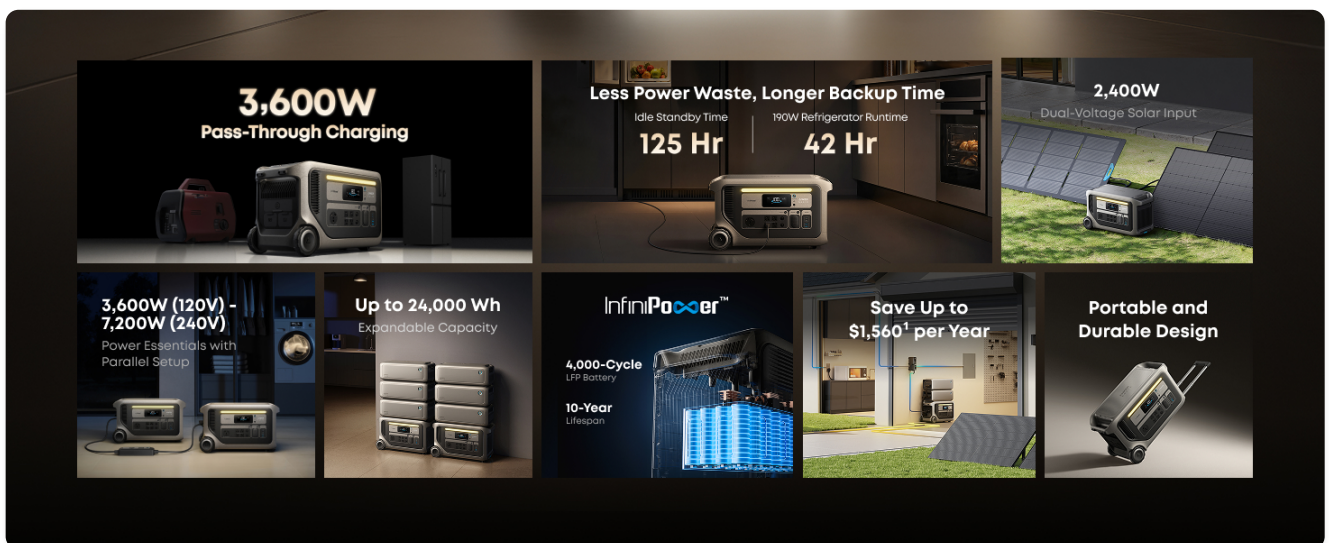


Figure 8: Illustration of the F3000's pass-through charging capability.

6.7. Low Idle Power Consumption

The F3000 is engineered for ultra-low idle power consumption, which minimizes energy waste when no devices are connected or

when devices draw minimal power. This feature contributes to a longer backup time, as the battery retains its charge more efficiently.



Less Power Waste, Longer Backup Time

AC Idle
Standby Time

125 Hr

190W Refrigerator
Runtime

42 Hr



Figure 9: The F3000's low idle power consumption for extended backup.

6.8. RV and EV Charging

The F3000 is equipped with an Anderson port and a TT-30R AC output port, making it suitable for RV life by keeping both DC and AC devices running. For emergency EV drives, the F3000 can deliver up to 3,600W to an EV, providing approximately 12 miles of range.



Figure 10: Anker SOLIX F3000 providing power for RV use.

7. MAINTENANCE

7.1. Battery Care

The Anker SOLIX F3000 uses Lithium Iron Phosphate (LFP) batteries, known for their longevity and safety. LFP batteries are built to last through 4,000+ charge cycles, which translates to approximately 10 years of daily usage. To maximize battery lifespan, avoid fully discharging the unit regularly and store it with a partial charge (around 50-80%) if not used for extended periods.



Figure 11: Internal LFP battery structure and lifespan.

7.2. Cleaning and Storage

Wipe the unit with a dry, soft cloth. Do not use abrasive cleaners or immerse the unit in water. Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your Anker SOLIX F3000, refer to the common problems and solutions below. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not turn on	Battery is fully discharged	Charge the unit using the AC charging cable.
No output from AC/DC ports	Output ports not activated or overloaded	Ensure AC/DC output buttons are pressed. Reduce connected load if overloaded.
Slow charging via solar	Insufficient sunlight, incorrect panel angle, or incompatible panels	Adjust panel angle for optimal sunlight. Check panel specifications and connections.
Unit overheating	Poor ventilation or excessive load	Ensure vents are clear. Reduce connected load. Move to a cooler environment.

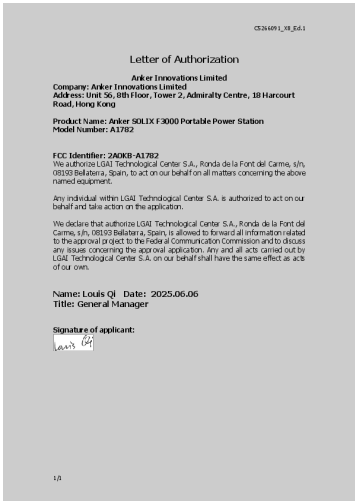
9. SPECIFICATIONS

Feature	Detail
Brand	Anker SOLIX
Model Name	A1782
Capacity	3,072Wh (3kWh), Expandable to 24kWh
Output Wattage	3600W (Continuous)
Max Recharging Input	6,000W (Fuel Generator + Solar)
AC Recharging Input	3,600W Max
Solar Recharging Input	2,400W Max (Dual Voltage: 11-165V & 11-60V)
Battery Type	Lithium Iron Phosphate (LFP)
Battery Cycles	4,000+ cycles to 80% capacity
AC Outlets	4 x 120V-20A, 1 x 120V-30A (RV Style)
DC Outputs	2 x USB-C (100W), 2 x USB-A, 1 x 12V Car Socket, 1 x 30A Anderson Port
Product Dimensions	25.6"L x 11.8"W x 14.8"H
Item Weight	100.1 pounds
Special Features	Portable (Wheels & Telescoping Handle), Pass-Through Charging, Low Idle Power Consumption, App Control

10. WARRANTY AND SUPPORT

The Anker SOLIX F3000 Portable Power Station comes with a 5-year warranty, ensuring peace of mind for your investment. For any technical assistance, troubleshooting, or warranty claims, please contact Anker customer support.

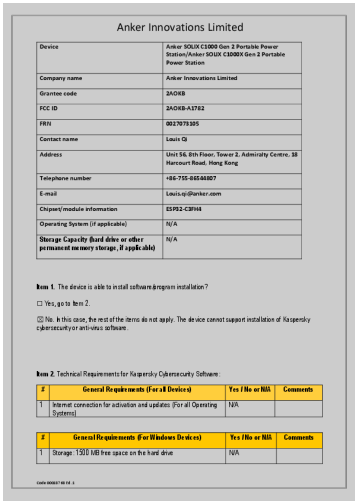
- **Warranty Description:** 5 Years
- **Customer Support:** Refer to the contact information provided on the warranty card included in your product packaging or visit the official Anker SOLIX website.
- **Returns:** 30-day easy returns are available through authorized retailers.



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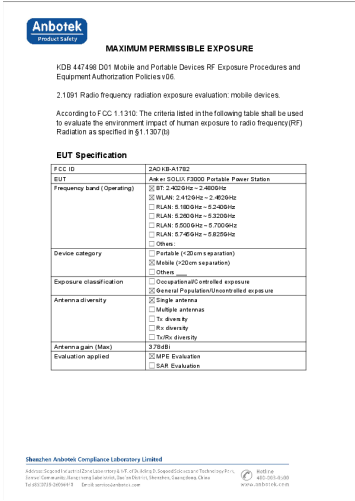
C5266091_X8_Ed.1 Letter of Authorization Anker Innovations Limited Company: Anker Innovations Limited Address: Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong Product Name: Anker SOLIX F3000 Portable Power Station Model Number: **A1782** FCC Identifier: 2AOKB-**A1782** We authoriz...
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[pdf] Installation Guide

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Anker Innovations Limited Device Anker SOLIX C1000 Gen 2 Portable Power Station/Anker SOLIX C1000X Gen 2 Portable Power Station Company name Anker Innovations Limited Grantee code 2AOKB FCC ID 2AOKB-**A1782** FRN 0027073105 Contact name Louis Qi Address Unit 56, 8th Floor, Tower 2, Admiral...
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[pdf] Specifications SAR Rating

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MAXIMUM PERMISSIBLE EXPOSURE KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and E ... ice category Exposure classification Antenna diversity Antenna gain Max Evaluation applied 2AOKB-**A1782** Anker SOLIX F3000 Portable Power Station BT: 2.402GHz - 2.480GHz WLAN: 2.412GHz - 2.462GHz RLA...
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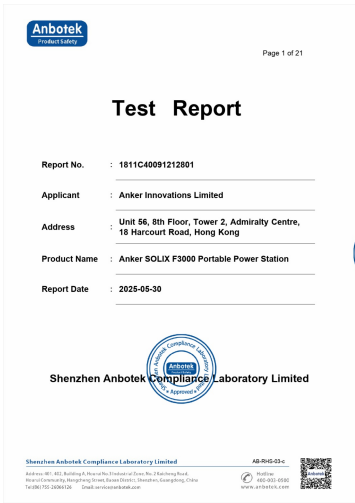


[pdf] User Manual Instructions Guide

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Anker SOLIX F3000 Portable Power Station SAFETY INFORMATION Product
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For Middle East and Africa Only ced-cn anker.com US/CA ...
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[pdf] User Manual Frequently Asked Questions

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[pdf] Test Report

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[pdf] Datasheet

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