

Anker SOLIX F3000 Portable Power Station Instructions & FAQ

Product SKU: A1782111

Keywords: F3000, Power Station

1. F3000/Solution/Accessory List and Compatibility

F3000:



Solutions:

Product Name	Product SKU	Appearance	Functions

Anker SOLIX Backup Kit	Transfer Switch 120V, 30 Amp, 6-Circuits	A17B71A1		Power your household with F3000 during an outage. Requires manual switching. When F3000 is depleted, disconnect from the transfer switch and recharge using a wall outlet.
	Transfer Switch 240V, 50 Amp, 10-Circuits	A17B31A1		
Anker SOLIX Power Saving Kit	Bi-Directional Inlet Box	A17B9111		It can be used in conjunction with Anker SOLIX F3000 to achieve bidirectional power transfer, support automatic storage of free

				solar energy or low-cost off-peak electricity, help reduce household energy costs, optimize energy usage, and reduce reliance on the grid.
	Smart Meter	A17X7111		It reports accumulated energy as well as voltage, current, power factor data in real time. It stores data in non-volatile memory for later retrieval at least 60 days of 1 min data resolution.

Accessories:

Product Name	Product SKU	Appearance	Functions
BP3000 Expansion Battery	A1782111-85		3,072 Wh Expansion Battery
TT-30 Charging Cable	A17D1111		120V Generator Connection
EV Charging Adapter	A17B6111		120/240V EV Connection

Double Voltage Hub	A17D4111		Connecting 2x F3000s
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1.1 F3000 & F3000 Expansion Battery

How does Anker SOLIX F3000 work?

Standalone Mode

By itself, F3000 charges devices with its AC and DC ports. Its AC ports include a TT-30R port (3,600W max output) and four NEMA 5-20R ports (2,400W max output per port). Its DC output ports include USB ports and one car charging and Anderson port each. F3000 supports up to three BP3000 expansion batteries (12,288Wh max capacity).

Parallel Mode

Connect two F3000s to Double Voltage Hub for 7,200W max output via Double Voltage Hub's NEMA L14-30R and NEMA 6-20 ports. If one F3000 stops operating, Double Voltage Hub will not output power.

Backup Mode

Connect a 120V transfer switch to F3000's TT-30 port to back up home loads. Before use, ensure that the transfer switch's N and PE wires are properly connected.

Home System

Integrate F3000 into your home power system via Bi-Directional Inlet Box and your home electrical panel. Maximum AC output is 1,800W. Four operating modes are supported: Self-Consumption, Time-of-Use, Manual Backup, and Storm Guard.

How is Anker SOLIX F3000 charged?

AC Charging Cable: Charge via a wall outlet.

TT-30 Charging Cable: Connect to a 120/240V generator.

EV Charging Adapter: Connect to an AC charging gun to charge.

Solar Charging: Connect solar panels to the high-PV (11-165V) or low-PV (11-60V) inputs.

Can Anker SOLIX F3000 and BP3000 charge and discharge simultaneously?

When Anker SOLIX F3000 is connected to BP3000 Expansion Battery, they function as a single unit, supporting simultaneous charging and discharging.

Can BP3000 Expansion Battery be charged directly from the grid

No, it must be charged and discharged together with Anker SOLIX F3000.

What devices can F3000 power, and what is its peak output?

It provides 120V with 3,600W continuous output and 7,200W peak output.

Can F3000 be charged simultaneously via AC and PV (solar)?

Yes, AC and DC hybrid charging is supported. With an additional battery pack, the maximum charging power can reach 6,000W.

1.2 3rd Party Generator with F3000

Can a 240V AC generator charge Anker SOLIX F3000?

Yes, Anker SOLIX F3000 supports charging from the 120V output of a 240V generator.

Which AC output ports are usable when Anker SOLIX F3000 is connected to a generator?

F3000's TT-30, NEMA 5-20, USB-C, USB-A, car charging, and Anderson ports remain functional. Note when connected to a generator, F3000 operates in bypass mode. The generator directly powers the load.

How is AC recharging power set when Anker SOLIX F3000 is connected to a third-party generator? Steps

1. Connect F3000 to the app via Bluetooth or Wi-Fi.
2. Go to Settings and select AC Recharging Power.
3. Set the value.

Note

Max AC recharging for F3000 is 3,600W. We recommend you set F3000 recharging power to 80% of generator output.

Is there an interruption when Anker SOLIX F3000 takes over home power from the generator?

There's a switchover time of 35 ms when the generator stops running or is manually turned off. The system switches back to Anker SOLIX F3000 to power loads.

1.3 Bi-Directional Inlet Box & Smart Meter with F3000

How is Anker SOLIX F3000 integrated into the home power system to supply power to household appliances?

F3000 works with Smart Meter and Bi-Directional Inlet Box to power appliances on the same phase. F3000 only charges and discharges when the grid is online. With TOU(Time of Use) mode, store energy during low-price periods and discharge during high-price periods.

Can third-party solar panels charge F3000 when connected to the home power system via Bi-Directional Inlet Box?

Yes. When solar energy from third-party solar panels is fed into the home grid, it will first be used for daily home consumption. Excess solar energy will be stored in F3000, effectively reducing electricity costs.

How is the installation position determined for Smart Meter?

Make sure it's in a good Wi-Fi location. After wiring Smart Meter to your electrical panel, turn on the main/branch breaker. Use the Anker app to pair Smart Meter. Connect to a Wi-Fi network with at least 3 signal bars.

What creates a suitable installation location for Anker SOLIX Bi-Directional Inlet Box?

Before installing the inlet box, turn on the electrical panel and use the Anker app to connect F3000. Ensure that the Wi-Fi signal at F3000's location is strong, with a signal strength of at least 3 bars.

How is a home system set up?

Steps to set up a home system:

Before installation: Ensure the electrical panel is powered off and all breakers are turned off.

Install the inlet box:

- **Smart Meter:** Install Smart Meter inside the panel, connect the L1/L2/N cables, and use the Anker app to pair Smart Meter with a strong Wi-Fi (Wi-Fi signal ≥ 3 bars).
- **Inlet Box:**
 - For **outlet replacement**, remove an existing outlet and install the inlet box in its place, connecting it to the outlet's original power wires.
 - For **no outlet replacement**, mount the inlet box directly on a suitable wall. Ensure good Wi-Fi signal and install a new breaker in the panel to connect the power wires to the inlet box.
- **Complete installation:** Connect the inlet box's self-locking plug to the Anker SOLIX F3000, turn on the electrical panel breakers and the self-locking plug switch, then use the app to configure the system.

1.4 Double Voltage Hub with F3000

Can Anker SOLIX F3000 power other devices when connected to Anker SOLIX Double Voltage Hub?

Yes. Before the hub is activated, F3000's AC ports (TT-30, NEMA 5-20) remain usable.

Once the hub is activated, AC output is routed through the hub only, and F3000's own AC ports are disabled.

Can expansion batteries be added to two F3000s connected to Double Voltage Hub? Should the number of batteries be the same?

Yes. We recommend connecting the same number of expansion batteries to each F3000. Otherwise, Double Voltage Hub will stop outputting if one F3000 runs out of power.

1.5 Solar Panel with F3000

What is the difference between the two PV input ports? Can both PV input ports be used simultaneously?

One PV input is high-voltage (11-165V), and the other is low voltage (11-60V).

You can connect PV panels to both inputs simultaneously, but check the connection method and ensure total voltage and current for each port are within the specified range.

Can solar panels be connected in series or parallel to either solar input port?

Yes, connect solar panels to either the high-voltage (11-165V) or low-voltage (11-60V) inputs. Set up series or parallel connections based on voltage range and ensure total voltage and current meet each input port's specifications.

How many solar panels can be connected to Anker SOLIX F3000's solar input ports?

It depends on the input specifications. For the high-voltage input, ensure total voltage stays within 165V. For the low-voltage input, ensure total voltage does not exceed 60V and total current stays within 17A.

1.6 EV Charger with F3000

Can Anker SOLIX F3000 be charged via an EV charger?

Yes, connect Anker SOLIX EV Charging Adapter to an AC EV charger and charge F3000 at up to 3,600W (120V~ 30A / 240V~ 15A).

Can Anker SOLIX F3000 power other devices while charging via EV?

The AC outputs cannot power other devices, but the DC outputs (USB-C, USB-A, car socket, and Anderson ports) can supply power.

Can Anker SOLIX F3000 charge my EV?

Yes if your EV charger supports charging via F3000's TT-30 or NEMA 5-20 ports. To start charging your EV, double press the AC outlet button. The car icon will appear on F3000's LCD, noting EV charging has activated.

How does Anker SOLIX F3000 charge an EV?

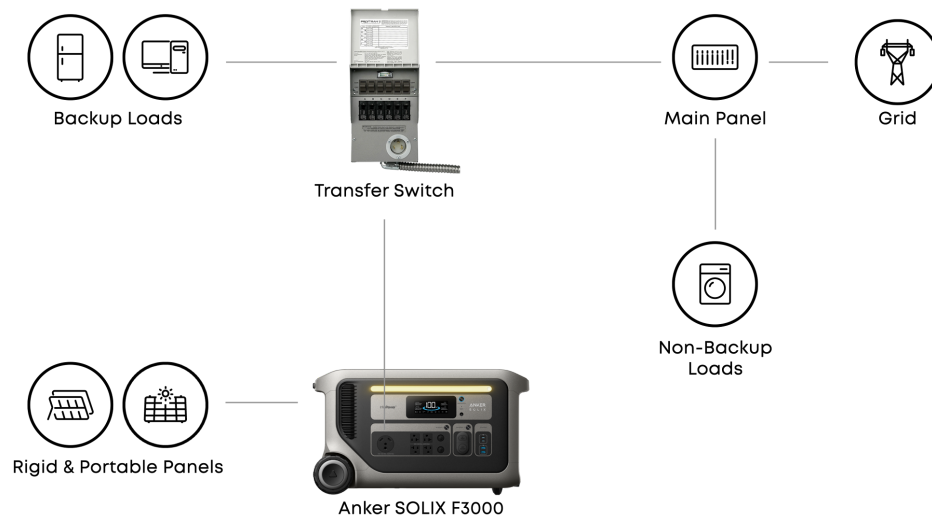
Most EV batteries have a capacity of 58-80kWh, while F3000 has a capacity of only 3.072kWh. If F3000 is fully charged, it can only charge 3-5% of an EV battery. It is suitable for emergency charging, but not regular charging.

My EV charging socket is a 14-50R. What adapter do I need to charge my EV with F3000?

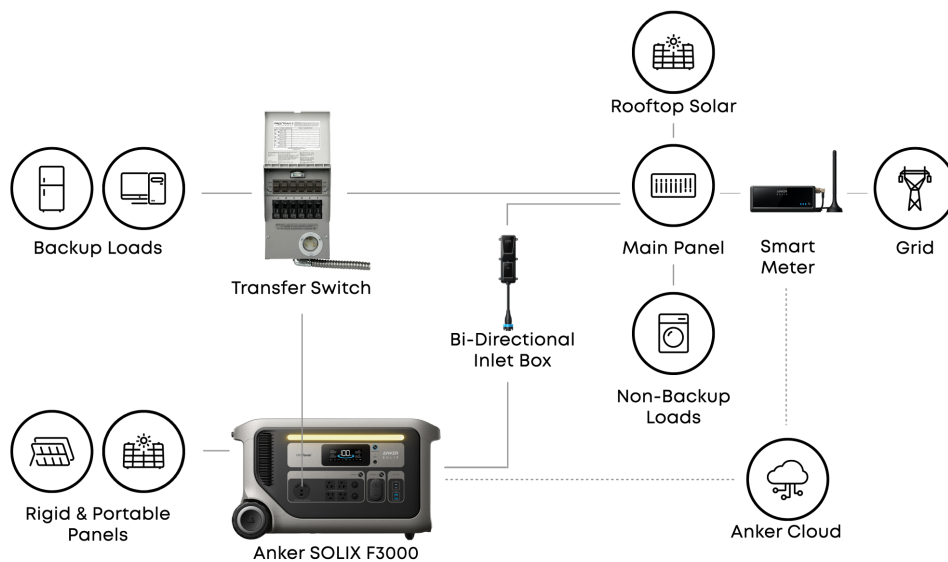
You need to use an adapter cable without a dogbone, meaning it will not connect both L1 and L2 of the 14-50R to L1 of the TT-30. Also, make sure to press the AC output button to put F3000 into EV charging mode.

2. Connection Instructions for Backup Only / Backup & Power Saving Solutions

Backup Only Solution:



Backup & Power Saving Solution:



3. FAQ

3.1 Product Specs

What type of battery cell does Anker SOLIX F3000 use?

F3000 features an LFP battery, which retains over 80% of battery capacity after 4,000 cycles and provides a long-lasting and reliable energy storage experience.

What is the battery capacity of Anker SOLIX F3000?

The battery capacity of F3000 is 51.2V/60Ah, totaling 3,072Wh.

Which F3000 AC output ports support UPS and what is the switchover time?

All of F3000's NEMA 5-20 ports and TT-30 port support UPS. During power outages, the system automatically switches to F3000 to power the loads, with a switchover time of 20 ms.

What is the operating temperature range of Anker SOLIX F3000?

Discharging Temperature: -4°F-104°F / -20°C-40°C

Charging Temperature: 32°F-104°F / 0°C-40°C

How large is Anker SOLIX F3000 and how much does it weigh?

Dimensions: 25.6 × 11.8 × 14.8" / 651 × 300 × 377 mm

Net Weight: 91.5 lb / 41.5 kg

Does Anker SOLIX F3000 support 240V output?

Yes. You'll need to connect two F3000s to Anker SOLIX Double Voltage Hub. By itself, F3000 provides 120V output.

Does Anker SOLIX F3000 accept 240V input?

Yes. Connect the EV charging adapter to an AC EV charger. By itself, F3000 accepts 120V input via an AC charging cable connected to a wall outlet or a TT-30 charging cable connected to a generator.

How long does Anker SOLIX F3000 last in standby mode?

F3000 lasts up to 125 hours in standby mode. This data is based on laboratory testing and is for reference only. Actual standby time varies depending on the environment and your usage.

3.2 Product care and maintenance

How should Anker SOLIX F3000 be stored?

1. Turn off all outputs when not in use to avoid battery power loss.
2. Store in a dry and cool area.
3. Check battery capacity each week. If the battery level is below 30%, charge to 100%.
4. Fully charge to 100% every three months.

3.3 Software usage

Can manual backup and storm guard modes be enabled at the same time?

Yes, both modes can be enabled at the same time. When they overlap, the system prioritizes storm guard mode and switches to manual backup once storm guard ends.

What is the strategy behind each TOU(Time of Use) mode?

There are four TOU(Time of Use) modes:

Peak/Mid-Peak: Designed for high pricing periods. Solar power is prioritized to supply loads and excess charges F3000. If solar power is insufficient, loads are supplemented by F3000 and the grid.

Off-Peak: Designed for standard pricing periods. Solar power is prioritized to supply loads and excess charges F3000. If solar power is insufficient, F3000 discharges up to 80% of its battery to help power the load.

Super Off-Peak: Designed for low pricing periods. Solar power is prioritized to charge F3000. If solar power is insufficient, the grid supplements the charging. F3000 will not discharge.