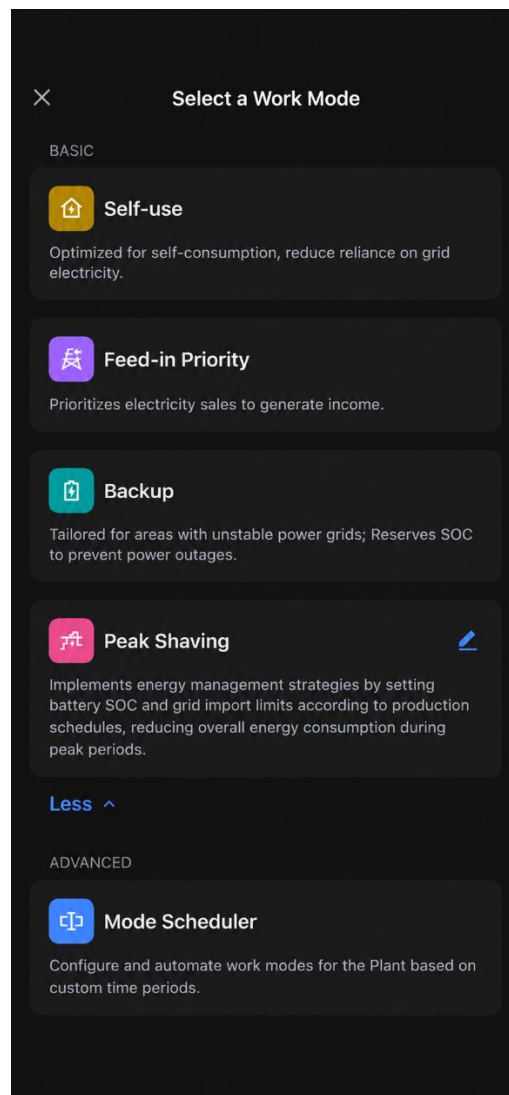


FoxCloud Mode Selection

Navigate to the Plant list, select the desired plant, and access its Dashboard. Then, proceed to

"Quick Settings" to configure the "Work Mode" and "Mode Scheduler".

The work mode feature allows users to customize the power plant's operational behaviour based on varying energy needs. Users can select from modes to optimize energy distribution, prioritize power sources, or align with time-based electricity tariffs.



1. Self-use

The self-use mode maximizes the utilization of PV output and battery energy to power the loads, thus minimizing the consumption of grid energy.

1.1 Basic logic

- When the PV output power is sufficient, the PV energy will be first supplied to the loads, with the excess stored in the battery. If, after this, there is still any energy surplus, it will be fed into the grid.
- If the PV output power is insufficient to meet the load demand, the system supplies the energy stored in the battery to the load. If the battery capacity is insufficient, the system purchases energy from the grid to fulfil the load demand.
- If the PV output power is insufficient to meet the load demand, the system supplies the energy stored in the battery to the load. If the battery capacity is insufficient, the system purchases energy from the grid to fulfil the load demand

2. Feed-in Priority

The Feed-in priority mode prioritizes electricity sales to generate income.

2.1 Basic Logic

- When the PV is generating, the PV energy will be first supplied to the loads, the excess energy will be fed into the grid. If the export is limited, the energy will be stored in the battery.

3. Back Up

In this mode, the battery charges at the maximum power until reaching the backup SOC, while battery discharging is not allowed.

3.1 Basic Logic

- When the PV output power is sufficient, the system uses the PV power to charge the battery first. If, after this, there is excess energy, it will be supplied to the load.
- If the PV power cannot meet the backup demand, the system purchases energy from the grid to charge the battery.
- The battery is allowed to discharge while the current SOC exceeds backup SOC.

4. Peak Shaving

The peak shaving mode implements energy management strategies by setting battery SOC and grid import limits according to production schedules, reducing overall energy consumption during peak periods.

4.1 Basic Logic

Peak shaving requires setting two parameters: the import limit and threshold SOC.

- When battery SOC is above the threshold SOC, the system operates in self-use mode.
- When your battery SOC drops below the set threshold SOC, the system automatically activates peak shaving to reduce electricity costs. During this mode, your battery will only provide power when your home's electricity demand exceeds the import limit you've set.
- If grid draw continuously exceeds the import limit, battery depletion will occur until reaching the minimum SOC protection level. At this point, peak shaving automatically suspends to prevent battery damage, switching to fail-safe operation. The threshold SOC setting thus balances daily self-consumption with extended peak-cost avoidance.

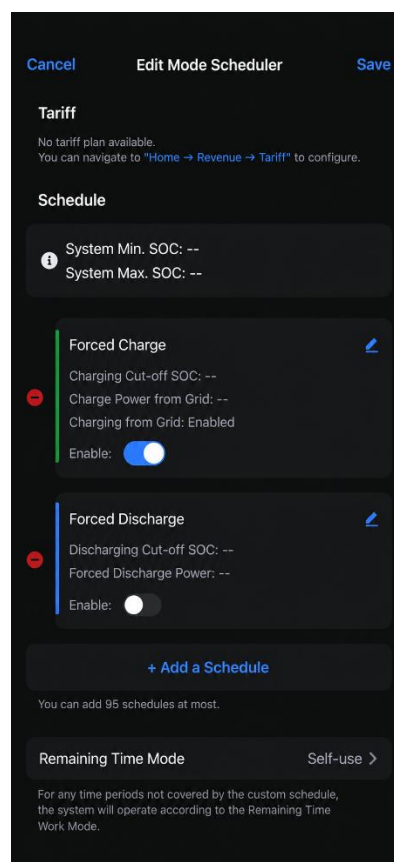
5. Mode Scheduler

The Mode Scheduler enables users to automate operational modes within specified time periods to meet specific energy management needs. By defining start/end times and selecting a desired mode, the system will automatically switch modes according to the schedule.

If Mode Scheduler is enabled, the configured schedule takes priority over the default operating logic during the defined time periods. Outside the scheduled periods, the system will continue operating according to the selected Remaining Time Work Mode.

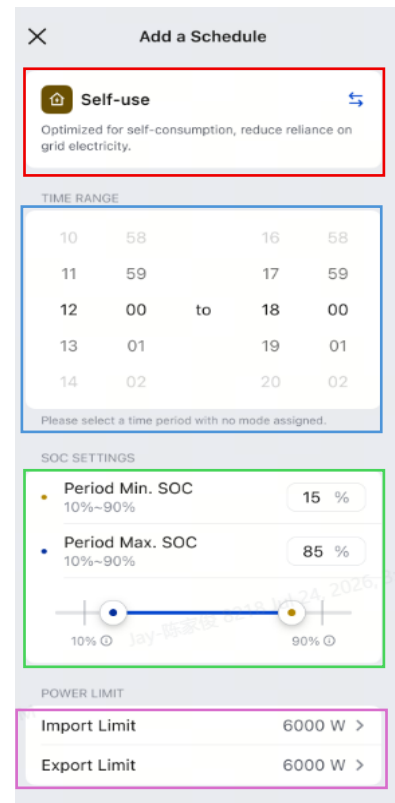
Mode scheduler supports the follow work modes:

- Self-use (Default Remaining Time Mode)
- Feed-in
- Backup
- Force Charge:
- Force Discharge:



When adding a schedule, you can choose:

- The **work mode** for the period
- The **time range** of the schedule
- The Battery **SOC settings**
- **Power Limit**
 - The allowable import and export power limits.
(i.e. 6000W Export limit under Self-Use for 2 hours, excess PV will only be able to send 6000W to the grid and 12000W at the end of the schedule if uninterrupted)



Add a Schedule

Self-use
Optimized for self-consumption, reduce reliance on grid electricity.

TIME RANGE

10	58	16	58
11	59	17	59
12	00	to	18 00
13	01	19	01
14	02	20	02

Please select a time period with no mode assigned.

SOC SETTINGS

Period Min. SOC 10%~90% **15 %**

Period Max. SOC 10%~90% **85 %**

POWER LIMIT

Import Limit 6000 W >

Export Limit 6000 W >

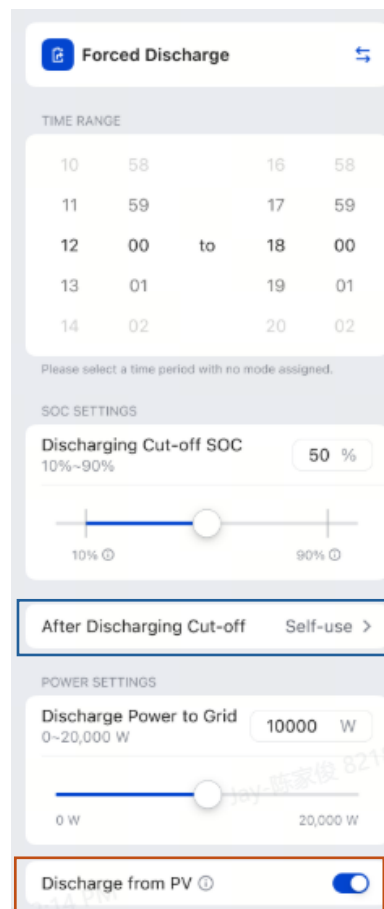
Forced Discharge

During the scheduled time period, the system actively discharges the battery to supply local loads and, if permitted, export surplus energy to the grid. Battery discharge will stop automatically when the battery reaches the configured Forced Discharge Cutoff SOC, after which the system resumes normal operation according to the selected work mode.

After Discharging Cut-off, three additional operating modes are optional:

- Self-use (assigned by default)
- Feed-in
- Backup
- Standby (Remain at the current work mode)

Discharge from PV allows either both battery and solar or ONLY Battery to discharge to grid



Forced Discharge

TIME RANGE

10	58	16	58
11	59	17	59
12	00	to	18 00
13	01	19	01
14	02	20	02

Please select a time period with no mode assigned.

SOC SETTINGS

Discharging Cut-off SOC 10%~90% **50 %**

POWER SETTINGS

Discharge Power to Grid 0~20,000 W **10000 W**

Discharge from PV ☒

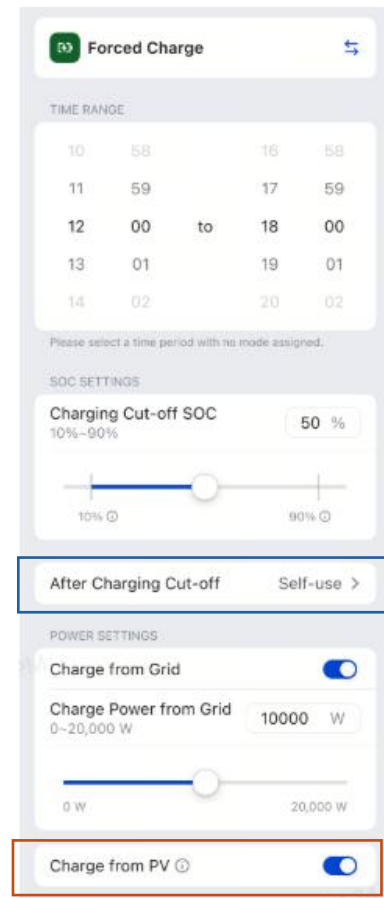
Forced Charge

During the scheduled time period, the system charges the battery using available PV power and/or grid power until the configured target SOC is reached. This function is typically used during off-peak tariff periods to store energy for later use.

After **Discharging Cut-off**, three additional operating modes are optional:

- Self-use (assigned by default)
- Feed-in
- Backup
- Standby (Remain at the current work mode)

Discharge from PV allows either both battery and solar or ONLY Battery to discharge to grid



Forced Charge

TIME RANGE:

10	58	16	58
11	59	17	59
12	00	to	18 00
13	01	19	01
14	02	20	02

Please select a time period with no mode assigned.

SOC SETTINGS

Charging Cut-off SOC 50 %

10% 90%

After Charging Cut-off Self-use >

POWER SETTINGS

Charge from Grid ☒

Charge Power from Grid 10000 W

0 W 20,000 W

Charge from PV ☒

Firmware Version supporting **After Discharging Cut-off**. Please upgrade the firmware to the relevant version for the function.

- Supported models and versions:
 - H3 Smart: master 1.46, manager 1.28
 - H1-G2: manager 1.73
 - KH: manager1.64 & master1.68

Note: The battery supports 100% Depth of Discharge (DoD) as specified in the product specification. The 10% SOC reserve in Mode Scheduler is an operational control strategy rather than a limitation of the battery capability.

During scheduled charge/discharge operation, a small energy reserve is intentionally maintained to:

- **Provide stable system operation during scheduled energy management;**
- **Accommodate normal SOC estimation tolerance and load fluctuations;**
- **Retain energy availability for unexpected backup requirements.**

The battery remains a 100% DoD product, while the 10% reserve applies only to the Mode Scheduler control logic and does not affect the battery's rated DoD.