



Next Level Energy Storage





Overload capabilities



S6-EH3P(12-20)K-H

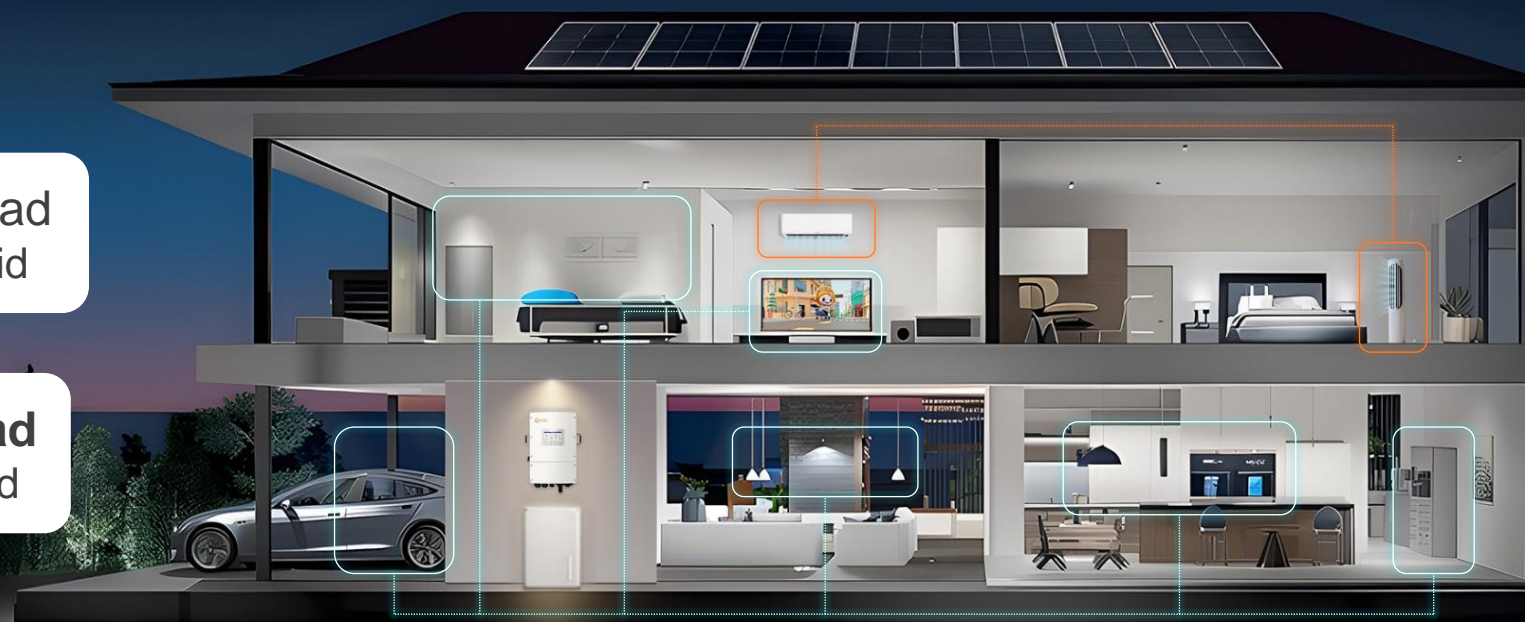


10s 200% overload
capability in off-grid

S6-EH3P(29.9-50)K-H



2s 160% overload
capability in off-grid

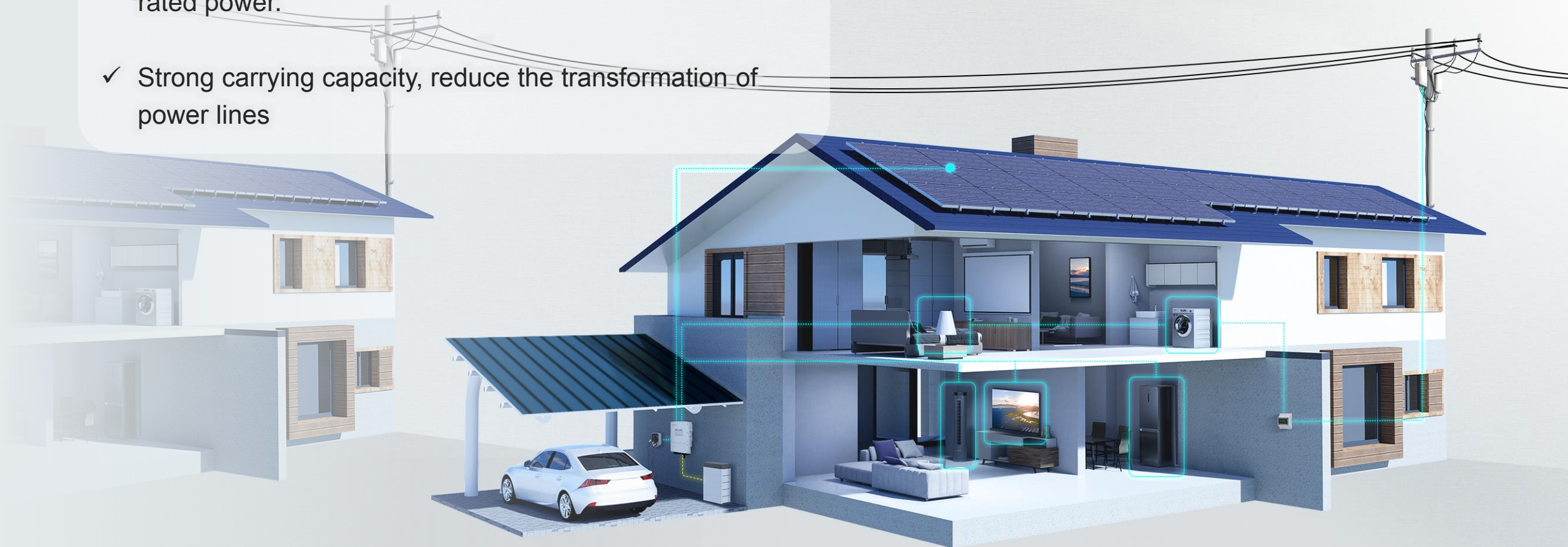




Unbalanced on both Grid and Backup Port



- ✓ Three-phase unbalanced load, single-phase load 50% rated power.
- ✓ Strong carrying capacity, reduce the transformation of power lines





Switching between on-grid and off-grid mode



The seamless transition between on-grid and off-grid modes during grid outages ensures continuous power supply to critical customer loads, thereby minimizing potential losses.



S6-EH3P(10)K
S6-EH3P(12-20)K
S6-EH3P(29.9-50)K

< 10ms



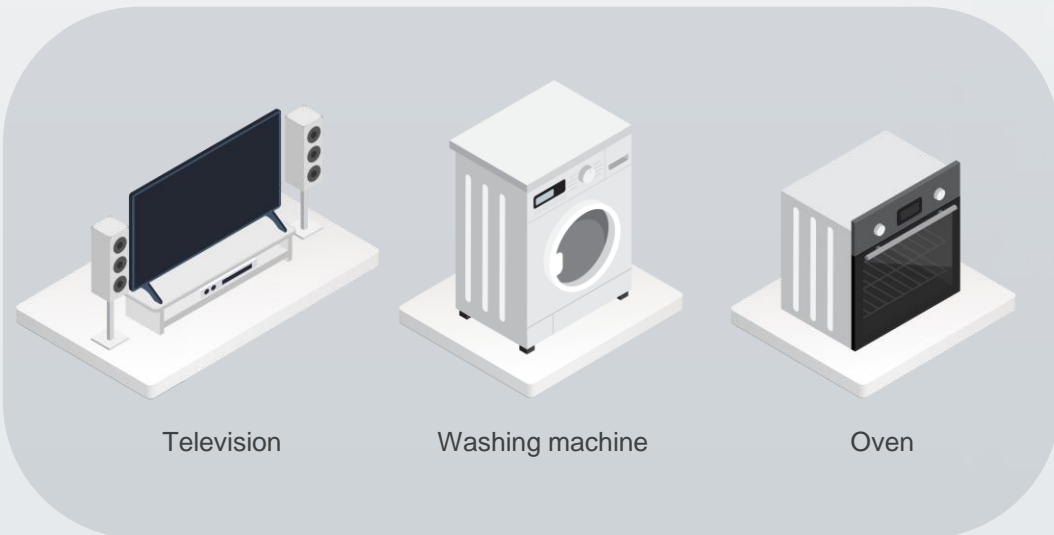
Smart Load Function



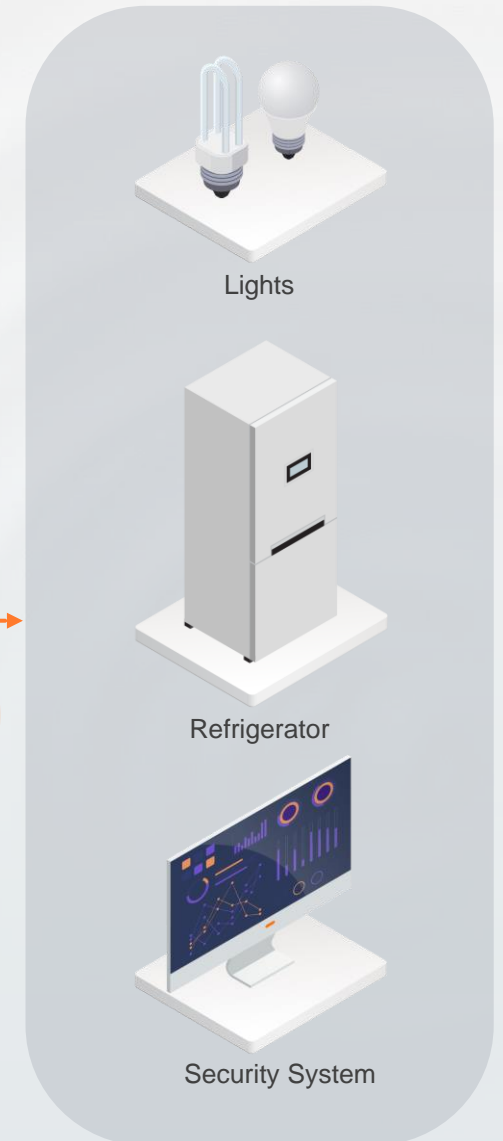
Intelligent load shaving during off-grid mode

Off-grid, or grid outage, customers can manage the load power supply and power off the load at different levels to ensure the power supply for critical loads.

Smart load
2nd priority



Back-up load
1st priority



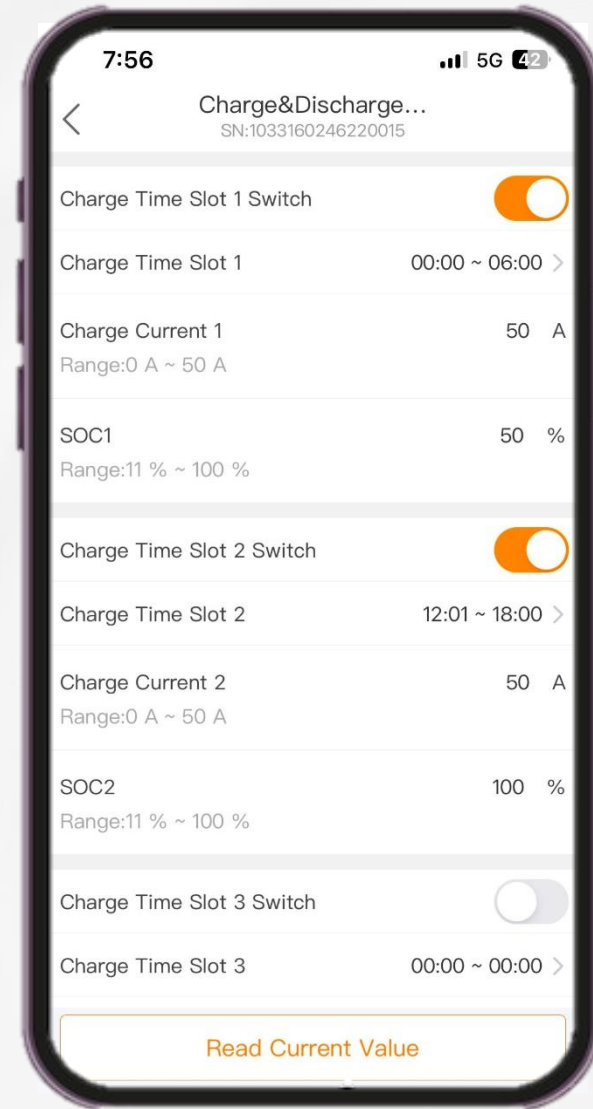
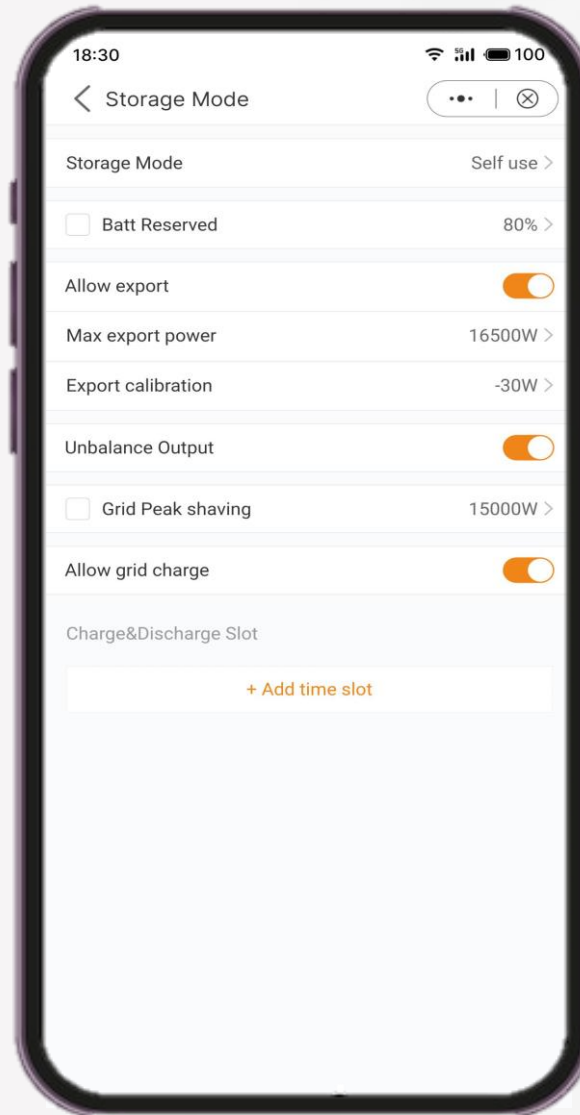
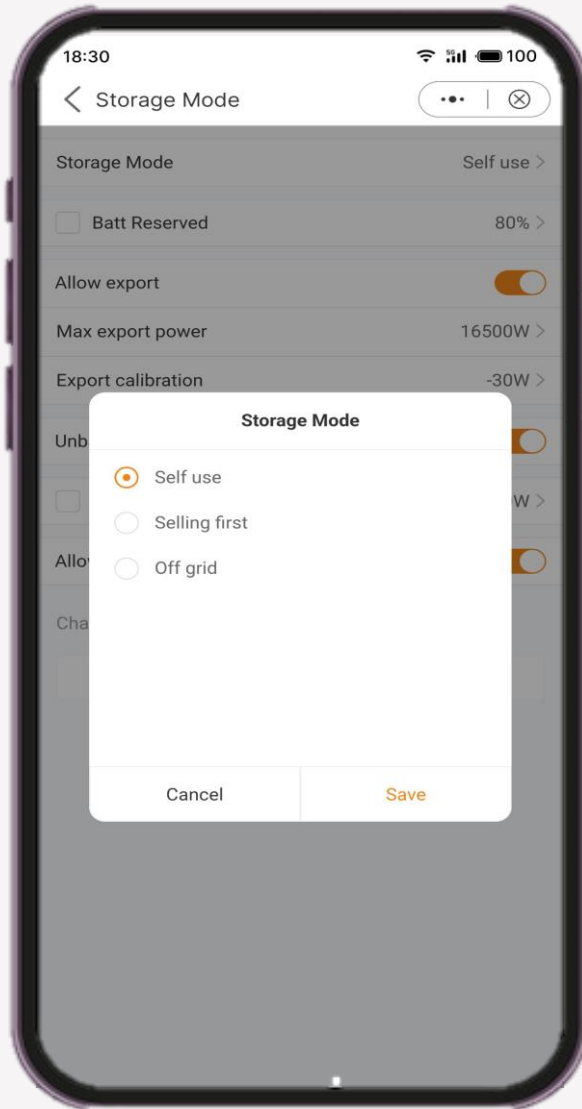


SolisCloud





Next Step Control

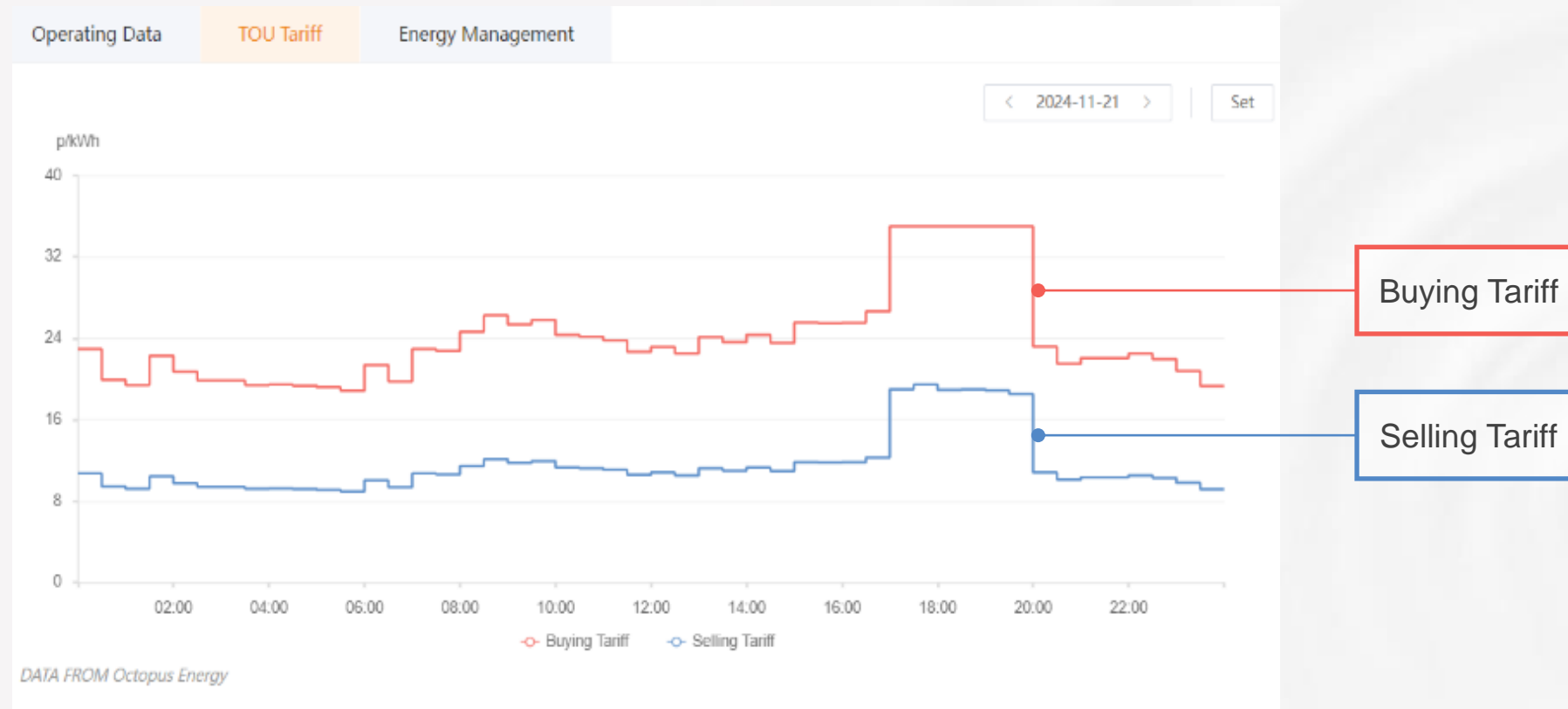




Market Energy Pricing: Nordpool



TOU Tariff function: users can view electricity price



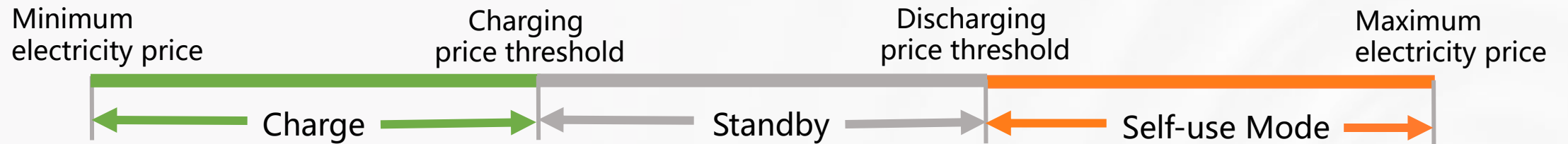
Regions: Finland, Norway, Sweden, Denmark, Latvia, Lithuania, Estonia, Germany, France, Austria, Belgium, UK, Netherlands, Poland.



Automatically charge/discharge according to dynamic electricity price to **maximize profits**



Solis AI current logic:



Continuous optimization: **Solis AI** will automatically create charging and discharging logic for users based on their electricity usage habits, dynamic electricity price, weather data, etc.

At the same time, it can automatically optimize and adjust optimization strategies based on a period of plant energy management data to reduce energy import or increase profits.



Next Step Control

Solis AI



The screenshot displays the Solis AI EMS interface, divided into several sections:

- System Overview:** A central hub with icons for PV (0kW), Grid (8,096kW), Battery (0,106kW), and Grid Load (0kW).
- Operating Data:** A graph showing SEK/MWh over time (02:00 to 18:00). The y-axis ranges from 0 to 1460. A vertical dashed line indicates the 'Current Time' at approximately 11:00. The legend includes Buying Tariff, Selling Tariff, Charge, Discharge, Standby, and Self-use.
- Configuration Panel (EMS):**
 - SOLIS AI:** A summary box with a 'Beta' tag and a checkmark. It states: "Let Solis AI help you devise the best energy management strategy. Solis AI will generate the optimum schedule by analyzing dynamic electricity prices, weather forecasts, and user consumption patterns." It includes a note: "Please set up the tariff plan".
 - Dynamic Tariff:** A section for configuring the Time-Of-Use tariff.
 - Tariff Setting:** A section for advanced settings.
 - Allow PV export to the grid:** A toggle switch set to 'Enable'.
 - Max grid export active power limit:** A text input field containing '10' with 'kW' as a unit.
 - Peak shaving:** A toggle switch set to 'Disable'.
 - Allows charging from mains:** A toggle switch set to 'Enable'.
- Revenue Maximization:** A section with a 'Beta' tag and a checkmark. It states: "Maximise the profitability of your system by charging and discharging your batteries according to the priced of electricity, ensuring you buy low and sell high!".
- Buttons:** 'Cancel' and 'OK' buttons are located at the bottom right of the configuration panel.

Peak-Valley Arbitrage

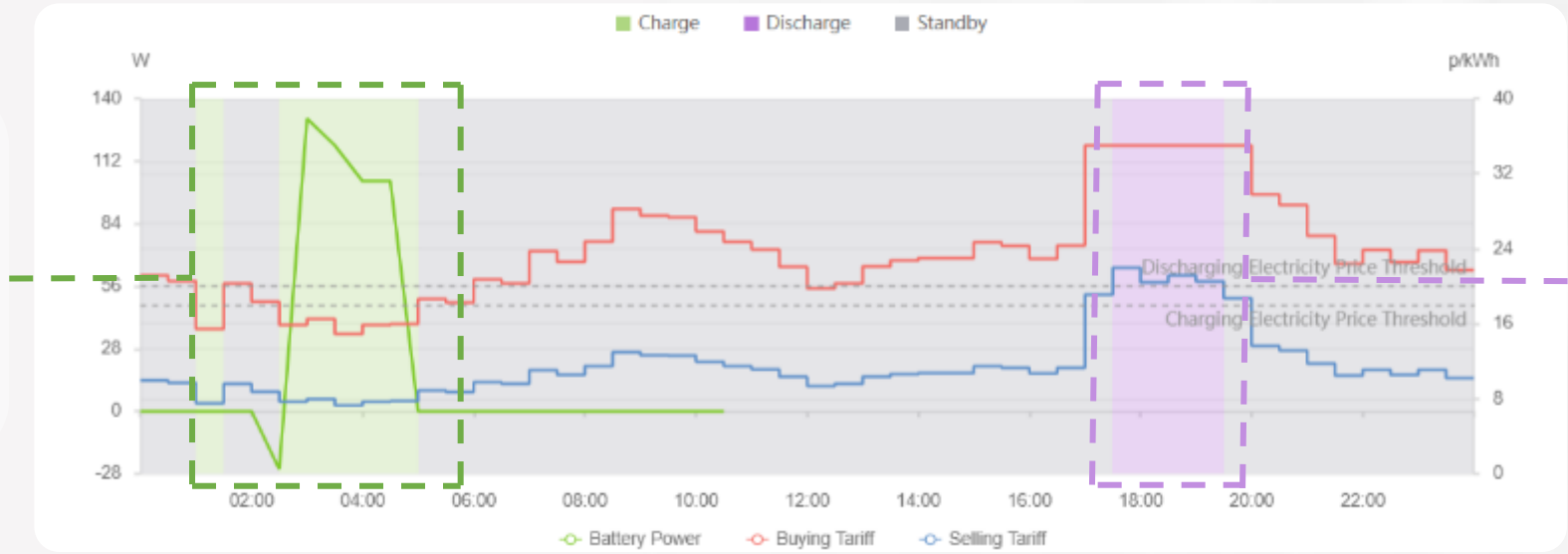


Strategy Rules [Preview Plans >](#)

* Tariff Area	* Charging Electricity Price Threshold	* Discharging Electricity Price Threshold
<input type="text" value="rg27 9su"/>	<input type="text" value="18"/> p/kWh	<input type="text" value="20"/> p/kWh

Charge

When the buying tariff is lower than the charging threshold



Discharge

When the selling tariff is higher than the discharging threshold



Users can define the charging/discharging price threshold based on the dynamic electricity prices in the selected tariff area, to develop a suitable control logic to achieve peak valley arbitrage.



Next Step Control

Peak Valley



The screenshot displays the Solis EMS interface, divided into two main sections: a system overview and a configuration panel.

System Overview (Left Panel):

- PV:** Today Yield: 0kWh = 0SEK
- Grid:** Today Imported: 15,39kWh; Today Exported: 15,85kWh = 0SEK
- Grid Load:** Today Consumed: 0kWh
- Battery:** Today Charged: 0kWh; Today Discharged: 0kWh

Operating Data (Bottom Left):

- Graphs showing SEK/MWh and kW over a 24-hour period.
- Legend: Buying Tariff, Selling Tariff, Charge, Discharge, Standby, Self-use.
- A vertical dashed line indicates the "Current Time" at approximately 11:00.

EMS Configuration Panel (Right Panel):

- SOLIS AI:** Let Solis AI help you devise the best energy management strategy. Solis AI will generate the optimum schedule by analyzing dynamic electricity prices, weather forecasts, and user consumption patterns.
- Revenue Maximization:** Maximise the profitability of your system by charging and discharging your batteries according to the price of electricity, ensuring you buy low and sell high!
- Tariff Setting:**
 - * Export when tariff is higher than __: Fixed price 1220 SEK / MWh
 - * Charge batteries when tariff is less than __: Fixed price 950 SEK / MWh
- Battery Behavior:**
 - Self-use:** The system maintains self-use, during which the power generated by the PV is used first for loads, followed by charging, with the balance fed to the grid. (Selected)
 - Standby:** Battery will be on standby to reserve more power for peak tariff hours. (Not selected)
- Advanced Setting:**
 - Allow PV export to the grid: Enable
 - Max grid export active power limit: 0 kW
 - Peak shaving: Enable
 - Allows charging from mains: Enable
 - * Max battery discharge current: 12 A
 - * Target SOC for Discharging: 10 %
 - * Max battery charge current: 12 A
 - * Target SOC for charging: 100 %

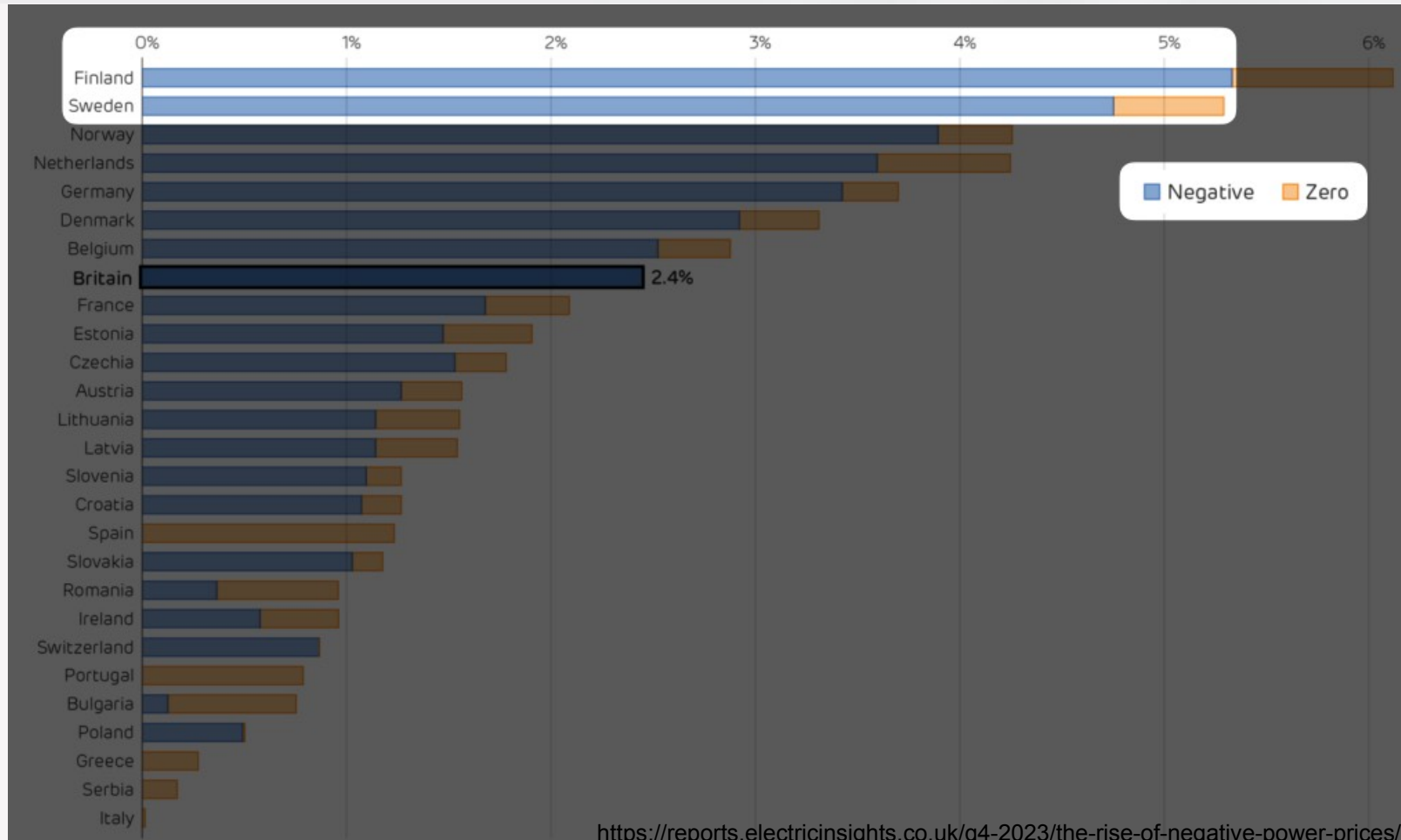
Buttons: Cancel, OK



Negative Pricing



Sweden had 626-722 (SE1-4) hours of negative pricing in 2024. It is expected to increase.





Timed Plans



Charge and discharge the battery according to user-defined time periods

Users can set timed charging and discharging plans based on their electricity usage habits and electricity prices to maximize their benefits.

During **negative electricity price** periods, **PV shutdown** can be selected to maximize power consumption from the grid.

Strategy Rules Preview Plans >

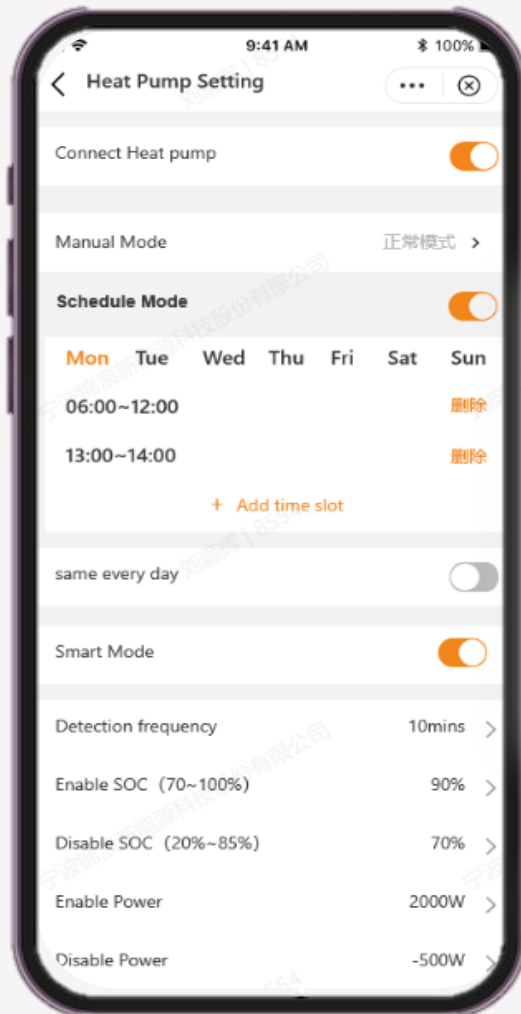
Period 1 🗑️

Mode	Start Time	End Time
Battery Charge/Discharge Cont ▾	🕒 00:00	🕒 24:00
Action	Power	SOC
<input checked="" type="radio"/> Charge <input type="radio"/> Discharge	500 W	80 %
PV Shutdown ⓘ <input type="checkbox"/>	DO ⓘ <input type="checkbox"/>	<input type="checkbox"/> Allow grid to charge battery





Heat Pump Control





Cyber Security and Data Security



SolisCloud server is located in Germany near Frankfurt

SolisCloud is GDPR Compliant with a special IOT Certification

SolisCloud and devices are ETSI EN 303645 Certified

- No default passwords
- Frequent software updates
- Protection against cyber attacks
- Ensure personal data is secure
- System resiliency against outages
- Easy for users to delete personal data



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Certificate

Certificate Number: CG 50582287 0001	Report Number: 18024507 001
License Holder: Ginlong technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront), Industrial Park, Xiangshan Ningbo 315712 Zhejiang P.R. China	Manufacturing Site: Ginlong technologies Co., Ltd. Room 1003, Building B, 4760 Jiangnan Avenue, Puyan Street, Binjiang District, Hangzhou City, Zhejiang P.R. China
Certification Mark: 	Certification acc. to: 2 PFG CH 0003/10.19 Type of product certification scheme: Test + Inspection + Certification
Product Information	Annual Fee Unit
Name of product: Information System <i>IoT associated services</i>	
Type: SolisCloud APP and corresponding Service URLs	
Technical Data: Service URLs: https://www.soliscloud.com	
Remarks: The certified IoT Service has high quality in accordance with TÜV Rheinland's IoT Service requirements. The assessment is based on TÜV Rheinland's Protected Privacy IoT Service Catalogue of Requirements (2PFG CH 0003), which is based on security experience and best practices, including legal compliance assessment, technical verification, management assessment. For details, please refer to the test report.	
Date of issue: 2023-04-23	Date of expiry: 2026-04-23
Certification body: TÜV Rheinland (China) Ltd.	
Certifier signature: Dr. Chen Weikang 	
TÜV Rheinland (China) Ltd. is the certification body established by TÜV Rheinland International GmbH in China. This certificate is based on Testing and Certification Regulation of TÜV Rheinland (China) Ltd. and states the conformity of the product with the requirements of China Mark certification scheme.	
	
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