



HAiKAI

Harmony

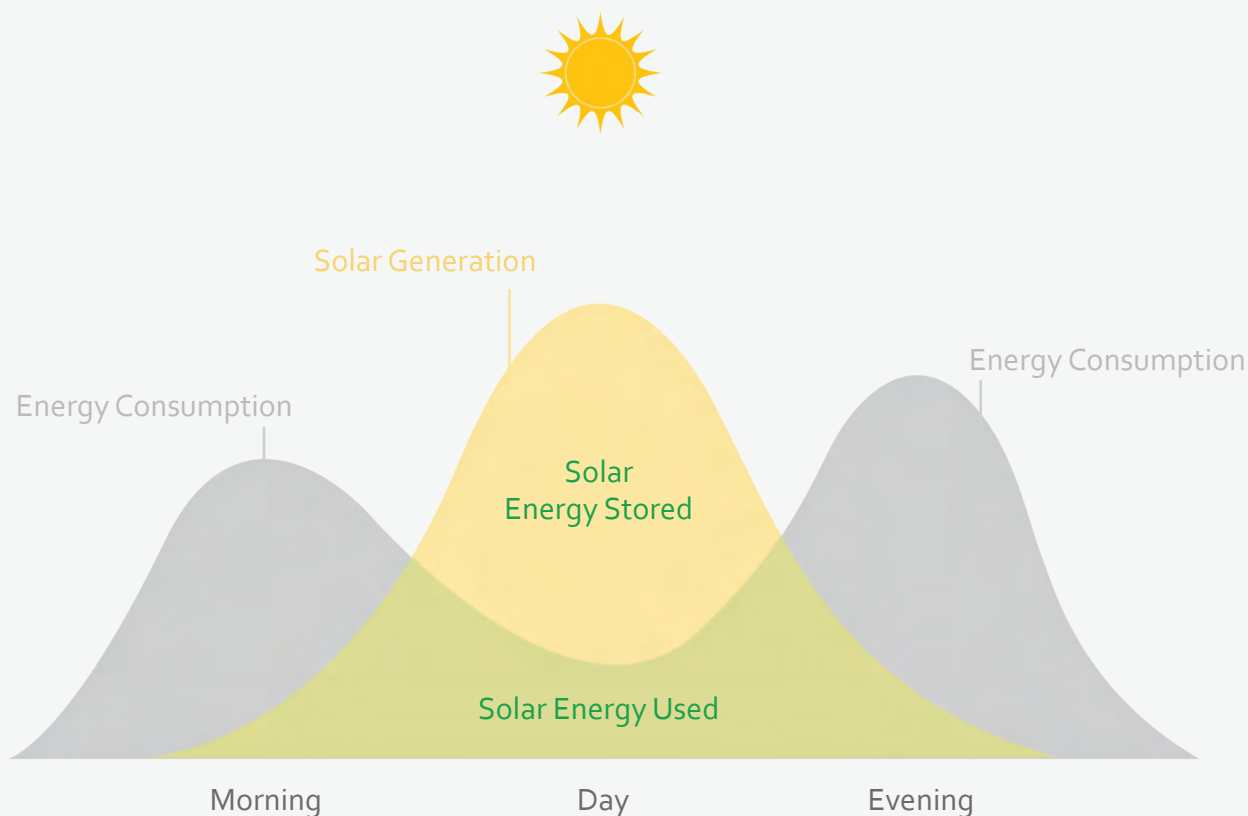
Residential Energy Storage

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Harmonic Living

HAIKAI Harmony stores surplus energy from solar and the grid for when you need it most, while saving your electricity bill in the process.





Save more on your electricity bill

HAIKAI Harmony allows you to fully utilize the energy generated from your PV system and automatically carries out peak shaving. Moreover, it can help prevent surging demand charges, helping you to cut back significantly on your electricity bill.

Use every drop of energy from your solar panels

The majority of energy generated from solar panels comes during mid-day. However, for most homes, energy usage peaks in the morning and the evening. As a result, only 30% of the energy generated is used on average.

HAIKAI Harmony helps you store that solar energy and allows you to use it whenever instead of letting it go to waste.

Keep your home light up 24/7

HAIKAI Harmony prepares you for accidents and natural disasters that may cause a power outage. Keeping important appliances running can make sure you and your family are safe even during the most extreme circumstances.

* Back up capability depends on the PCS chosen.

Appearance - HAIKAI Harmony

The HAIKAI Harmony residential energy storage has a simple and elegant design to fit into any home. The status of the battery is clearly shown on the LED screen at the front of the battery. The modular design of the battery allows the battery capacity to be easily customized according to the need of your home.



Weight: 45 kg (100 Ah)
115 kg (280 Ah)



Sleek.
Compact.
Simple.

- Modular design easily expandable up to 8 modules
- Seamless connection between modules
- LCD screen
- Fire-proof casing



HAIKAI Harmony

Technical Specifications

Models:	100 Ah	280 Ah
Battery Capacity:	5.12 kWh	14.34 kWh
Usable Capcity:	4.60 kWh	12.90 kWh
Depth of Discharge:	90%	
Rated Voltage:	51.20 V	
Operating Voltage Range:	48 V - 57 V (90% DoD)	
Internal Resistance:	≤ 30 mΩ (100 Ah)	≤ 15 mΩ (280 Ah)
Cycle Life:	10,000 Cycles	
Warranty:	10Years Product Warranty	
Protection Level:	IP65	

Operating Mode

Max. Charging:	50 A (0.5 C)
Max. Discharge:	100 A (1 C)
Max. Short Circuit:	200 A
Working Temp.:	- 10 °C - 50 °C
Humidity:	≤ 90 % ROH, No Condensation

Battery Management System

Module Connection:	1 - 8 Parallel	
Capacity:	5.12 - 40.96 kWh Increments of 5.12 kWh	14.34 - 114.70 kWh Increments of 14.34 kWh
Usable Capacity:	4.61 - 36.86 kWh Increments of 4.61 kWh	12.90 - 103.20 kWh Increments of 12.90 kWh
Energy Consumption:	< 2 W (Work mode) , < 50 mW (Sleep mode)	
Monitoring Paramenters:	System voltage, Cell voltage and temperature, Current, PCBA temperature	
Comm. Interface:	Compatible with CAN and RS-485	

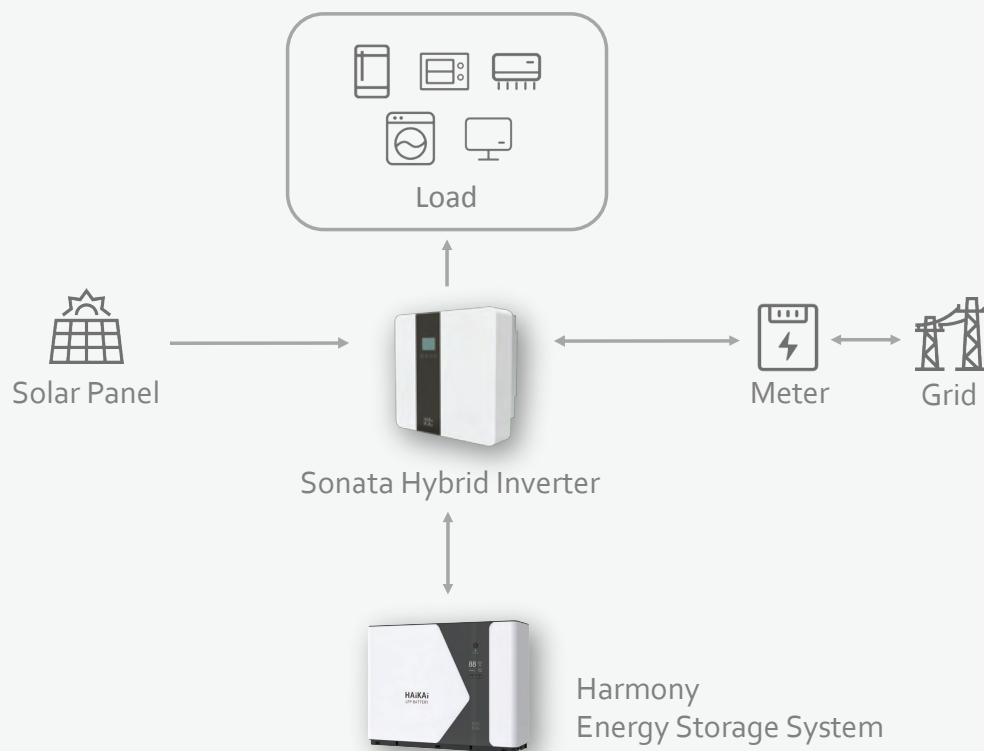
Certifications

Battery:	UL1642, IEC62619, IEC62133, UN38.3
System:	CE, UN38.3

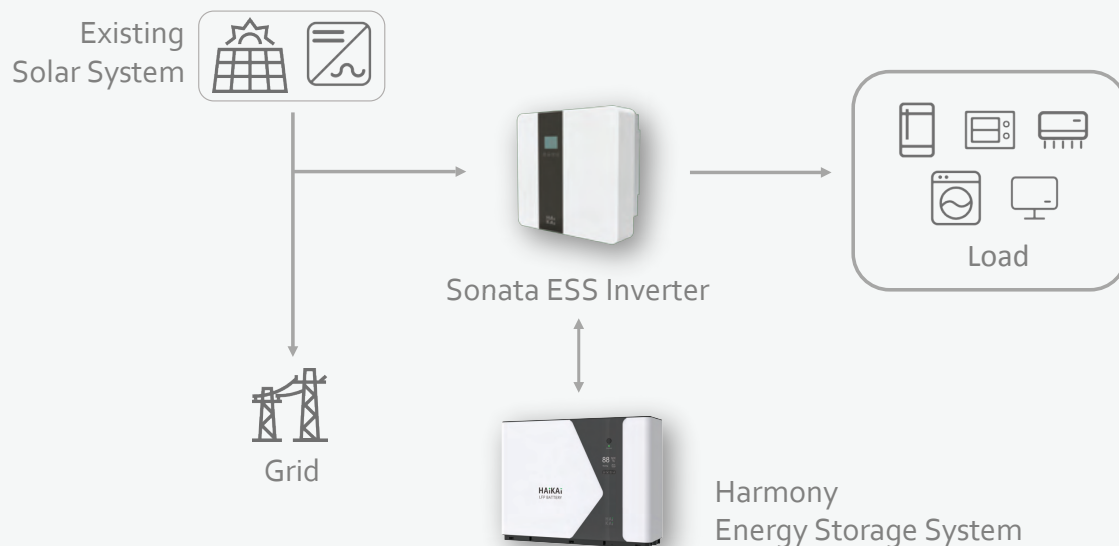


System Layouts

On Grid:



Retrofit Existing Solar System:



Ready to add Harmony to your home?

Contact Us:

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HAiKAi

Sonata 5000 Hybrid Inverter

Suitable for many applications

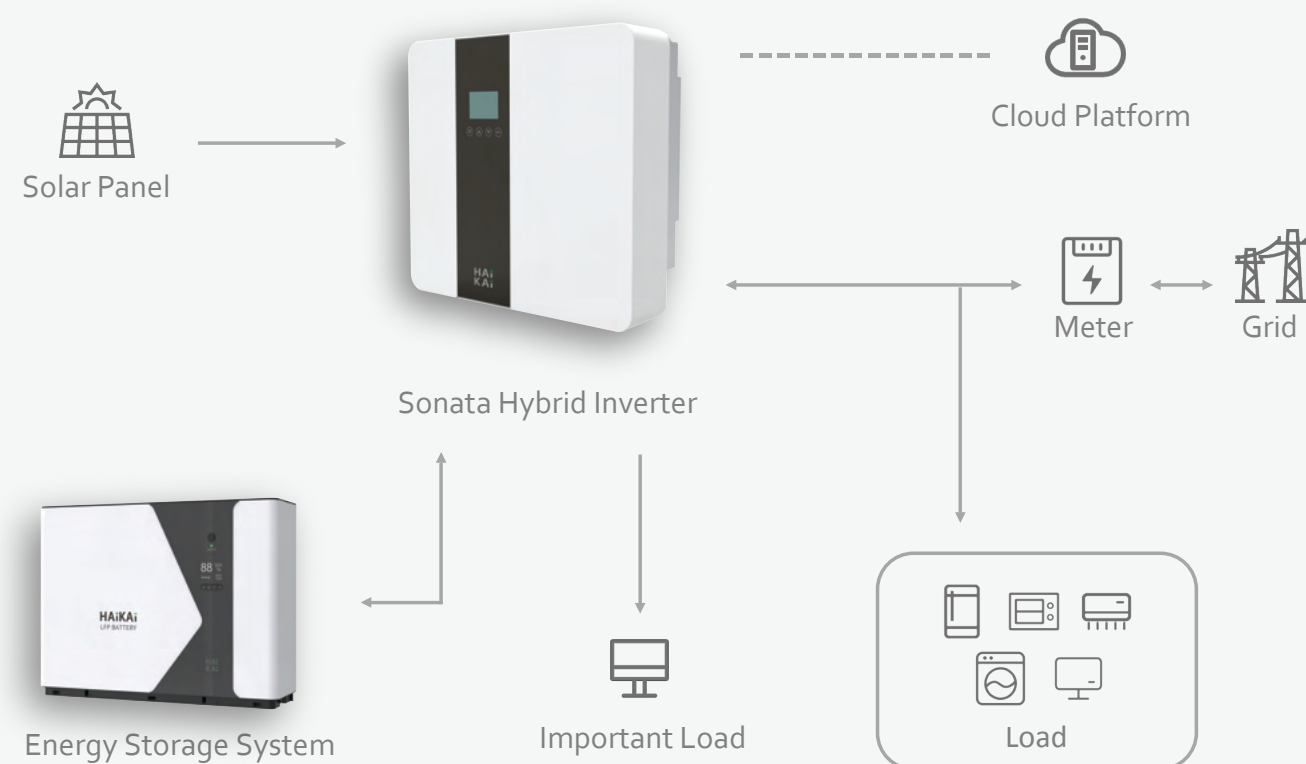
- Wide input voltage range
- Compatible with both lithium-ion or lead acid batteries.

Modern Design

- Saves space with light weight, wall mounted design
- IP 65 protection rating
- Low noise natural cooling
- Touch screen LCD display

Safe and Reliable

- Compatible with anti-counter flow function
- Protection from reverse battery connection
- Intelligent home power management
- Power dispatch and demand side response management
- Distributed virtual power station management



Technical Specifications

PV input

Max. Input Power	7000W
Start-up voltage	125V
Max. PV voltage	550V
MPPT range/nominal	125V-500V /360V
Max. input current	14A/14A
MPPT tracker/strings	2/1

AC output

Rated power W/VA	5000VA/5000W
Max. output current	21.7A
Nominal voltage/range	230V/180VAC~80VAC
Frequency	50/60Hz
PF	0.99 lagging-0.99 leading
THDI	<3%
AC output topology	L+N+PE

Battery

Battery voltage range	40~58V
Max. charging voltage	58V
Charge/discharge current	95A/104.2A
Battery type	Lithium /Lead-acid
Communication interface	CAN/RS485

EPS Output

Rated power W/VA	5000VA/5000W
Rated voltage	230VAC
Rated current	21.7A
Rated frequency	50/60Hz
Automatic switchover time	<20ms
THDU	<2%
Overload capacity	110%, 60S/120%, 30s/150%, 10s

General Data

Battery charge/discharge	95.5% / 95%
DC max. efficiency	97.60%
Euro efficiency	97%
MPPT efficiency	99.90%
Protection class	IP65
Noise emission (typical)	<35dB
Operation temperature	-25-60 °C
Cooling Natural	Natural
Relative humidity	0~95% (non-condensing)
Altitude	2000m
Dimensions	550 x 200 x 515mm
Weight	26kg
Inverter topology Without transformer	Without transformer
Self-consumption	<3W

Features

Display	LCD
Interface:	yes / opt / yes / yes
Certificates	CE, TUV, SAA, IEC62116:2014, IEC61683:1999