

Alpha All-in-one Home Solar System

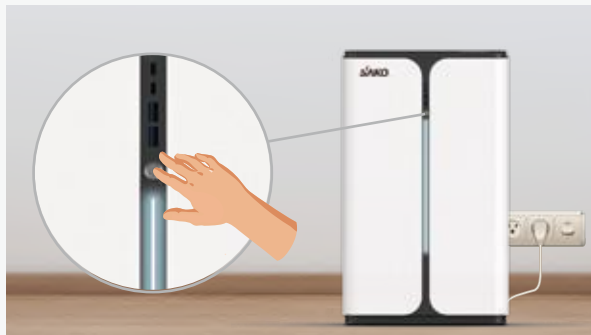
ALPHA Series

- Portable Power Station, high capacity in compact size
- Pure sinewave AC output with Lithium-ion battery bank
- Power 99% of your home appliances
- Scalable output power from 1K to 3K
- 60A-80A built-in AC and Solar charger
- Super-fast recharge, 0-90% in one hour
- 3 AC outlets, 4 DC outputs, terminal block for 1K/3K
- Dual inputs, grid and solar
- Built-in battery management system (BMS)

System Diagram

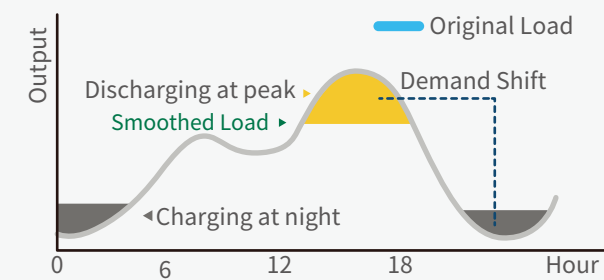
Highly mobility and Plug & Use

If you need to relocate the energy bank, simply unplug it and move it anywhere.

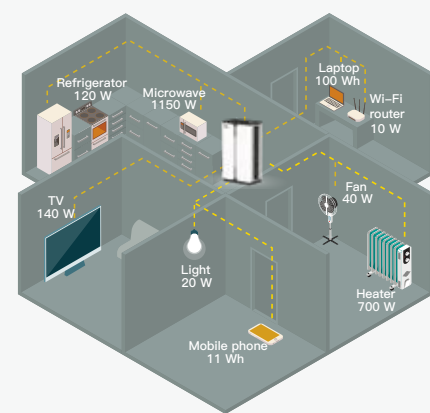


Peak cut

Store the power at night when the utility is generally cheaper and more available and discharge power when needed.



Power 9 devices at the same time for one hour and more



STORAGE SOLAR SYSTEM

MODEL	ALPHA ESS 1KVA/1.28KWH	ALPHA ESS 3KVA/2.56KWH
SPECIFICATION		
Inverter / Charger		
Inverter Type	1KVA/12V	3KVA/24V
Rated Output Power	1KW	2.7KW
Output Voltage Waveform	Pure Sine Wave	Pure Sine Wave
Output Voltage	230VAC 50HZ	230VAC 50HZ
Charging Current(Utility and solar together)	60A Max.	80A Max.
AC Input		
Nominal Input Voltage	230Vac	230Vac
Voltage Range	170-280Vac(UPS), 90-280Vac (Appliances)	170-280Vac(UPS), 90-280Vac (Appliances)
Nominal Input Frequency	50HZ / 60HZ(Auto detection)	50HZ / 60HZ(Auto detection)
AC Charging Current	20A Max.	60A Max.
Solar Input		
Nominal PV Voltage	36Vdc	240Vdc
PV Array MPPT Voltage Range	15Vdc~80Vdc	30Vdc~350Vdc
Solar Charging Current	40A Max.	80A Max.
Lithium Iron Battery		
Capacity	1280Wh	2560Wh
Nominal Battery Voltage	12.8Vdc	25.6Vdc
Typical Capacity	100Ah	100Ah
Max.Charge Current	50A	50A
Max.Discharge Current	100A	100A
Operation Temperature	-10°C~+50°C	
Protection		
Protection	Overcharge/Overdischarge/Overcurrent/ Overtemperature/Shortcircuit protection	
Ambient		
Noise(dB)	< 40dB (1 meter)	
working Temperature	-10°C ~ +50 °C	
Humidity	0~95% (no condensation)	
Sea Level(m)	≤1500	
Dimension		
L×W×H (products size)	L450*W213*H636mm	L450*W279*H731mm

System Diagram



STORAGE SOLAR SYSTEM