

# Alpha All-in-one Home Solar System

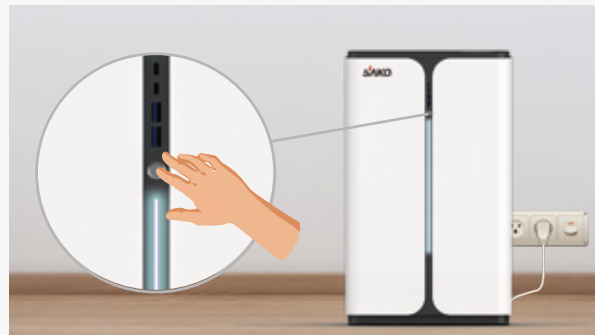
## ALPHA Series

- 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

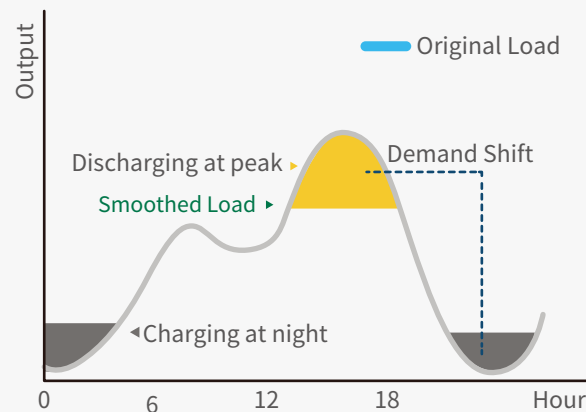
### Highly mobility and Plug & Use

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

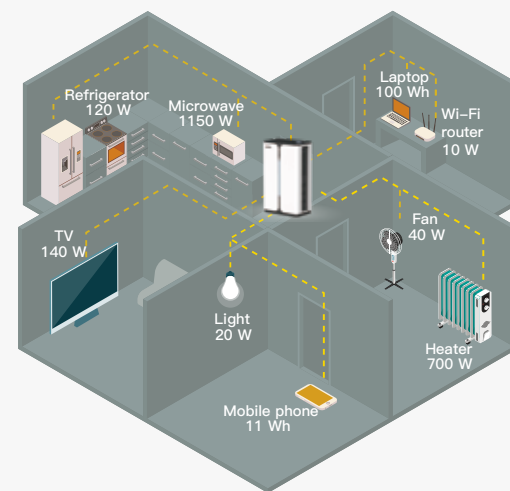


### Peak cut

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



MODEL	ALPHA 1KVA/1.28KWH	ALPHA 3KVA/2.56KWH
<b>SPECIFICATION</b>		
<b>Inverter / Charger</b>		
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.
<b>AC Input</b>		
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.
<b>Solar Input</b>		
Nominal PV Voltage	36Vdc	240Vdc
PV Array MPPT Voltage Range	15Vdc~80Vdc	30Vdc~350Vdc
Solar Charging Current	40A Max.	80A Max.
<b>Lithium Iron Battery</b>		
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	
<b>Protection</b>		
Protection	Overcharge/Overdischarge/Overcurrent/ Overtemperature/Shortcircuit protection	
<b>Ambient</b>		
Noise(dB)	< 40dB (1 meter)	
working Temperature	-10°C ~ +50°C	
Humidity	0~95% (no condensation)	
Sea Level(m)	≤1500	
<b>Dimension</b>		
L×W×H (products size)	L450*W213*H636mm	L450*W279*H731mm

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