

All-In-One ESS (Energy Storage System)

AKESS Flex Series 1200W+1280Wh(Max 5120Wh)



Stacked

▼ Main Features

- Lightweight & compact size – Easy and quick installation.
- Lower costs – Safer and more reliable.
- High capacity & high power – Supports connecting up to 4 batteries in series for a total of 5.12kWh (100Ah).



Common Power Supply Equipment Reference

*The following reference applies only to the 1.2kW/2.4kWh model. Refer to official specifications for details.



Lamp 20W
100h



Fan 30W
66h



TV 100W
20h



Phone 2942mAh
187 times



Laptop 60W
33h



Coffee Maker 40W
50h



Rice cooker 600W
3h

Inverter	
Rated Capacity	1200W
AC Input	
Rated input voltage	208/220/230/240VAC
Voltage Range	170~280Vac For Personal computers ; 90~280Vac For Home Appliances
Frequency Range	40~70Hz(Auto sensing)
AC Charging Current Range	2~50A
Max. Input Current	10A
PV Input	
Solar Charging Type	MPPT
PV Max. Input Power	800W
MPPT Tracking Voltage Range	17~115 VDC
Max. PV Input Voltage	115VDC
PV Charging Current Range	2~50A
Max. Charging Current	100A
Output	
Rated Output Power	1.2KW
Rated Output Voltage	(220V~240V) ± 5%
Output frequency	50/60Hz ± 0.1%
Overload Capacity(Battery Mode)	60s@102% < Load & < 120% Load 10s@120% < Load & < 200% Load
Peak Efficiency (Battery Mode)	>90% battery mode >96% line mode
Transfer Time	10ms

Battery	
Rated Voltage	12.8V
Nominal Capacity @0.2C	100Ah
Energy(Wh)	1280Wh
Designed lifespan	10* years life design
Self Discharge Rate	≤3.5% per month at 25°C
Charge Voltage	14.8±0.2V
Charge Mode (CC/CV)	At 0°C~50°C temperature, charged to 14.4V at a constant current of 0.5C, and then,changed continuously with constant voltage of 14.4V until the current was not more than 0.02C.
Max. Continuous Charge Current	150A
Max. Continuous Discharging Current	150A
Discharge Cut-off Voltage	8.8V
Maximum Number in Series	4 batteries
Communication	Bluetooth, LCD display
Physical Parameters	
W×D×H(mm)	340*172*255
Weight (For Reference)	13.2kg