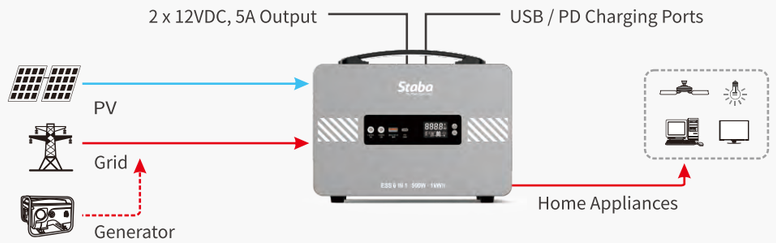
230V All-in-One Portable ESS
300W / 500W / 1000W



Features

- Affordable all in one ESS
  (Inverter + LiFePO4 battery + AC charger + MPPT PV charger).
- LCD display shows key information.
- Pure sine wave output.
- Supports both AC charging and PV charging.
- Complete protection functions.
- Supports independent DC output (12VDC, USB-A, USB-C).
- Service life can reach 10 years.

Solar System Connection





Technical Specifications

MODEL	ESS-300W-0.9KWH	ESS-500W-1KWH	ESS-1000W-2KWH
INVERTER OUTPUT			
Rated AC Output Power	300W	500W	1000W
Output Waveform	Pure Sine Wave		
Output Voltage	185-230VAC, 50Hz		
Low DC Warning Point	19%		
Low DC Cut-off Voltage	2.9VDC		
AC Output Socket	2 pcs		
AC INPUT			
Rated Input voltage	230VAC		
Input Frequency	45-65Hz		
Low Voltage Cut / Recover	90±5VAC / 100±5VAC		
High Voltage Cut / Recover	280±5VAC / 270±5VAC		
Max. AC Charging Current	80A	80A	80A
PV INPUT			
Nominal PV Voltage	30VDC	30VDC	38VDC
MPPT Voltage Range	10-55VDC		
Max. PV Open Circuit Voltage	56VDC		
Max. Solar Charging Current	80A	80A	80A
LiFePO4 BATTERY			
Battery Power	896Wh	1004.8Wh	2009.6Wh
Nominal Battery Voltage	3.2VDC	3.2VDC	6.4VDC
Bulk Charging Voltage	3.6VDC	3.6VDC	7.2VDC
Float Charging Voltage	3.5VDC	3.5VDC	7.0VDC
Battery Capacity	280Ah	314Ah	314Ah
Max. Charging Current	130A	220A	220A
Max. Discharging Current	130A	220A	220A
Operating Voltage Range	2.9-3.6VDC	2.9-3.6VDC	5.8-7.2VDC
Operation Temperature	-10°C~+50°C		
Life Cycle	7000 -8000 cycles		
DC OUTPUT			
12VDC Output	2.1mm DC Jack: 2pcs x 12VDC / 2.5A max		
USB Output	USB-A: QC2.0 / 3.0 18W max ; USB-C: PD 20W max		
DISPLAY			
LCD Screen	AC Output voltage, battery voltage, battery SOC, load power, etc		
PROTECTION			
Protection	Overcharge, overdischarge, overcurrent, short circuit, over temperature		
OPERATING CONDITIONS			
Operating Temperature	0°C - 50°C		
Storage Temperature	-15°C ~ 50°C		
Operating Humidity	10%-90%, non-condensing		
PACKING			
Product Size (W x H x D)	290x190x221 mm	301x210x223 mm	451x210x285 mm
Net Weight	10.2 kgs	11.2 kgs	20 kgs
Package Size (L x W x H)	392x285x258 mm	403x285x278	573x330x288 mm
Gross Weight	11.2 kgs	12.2 kgs	21.8 kgs

* Sodium battery version is available