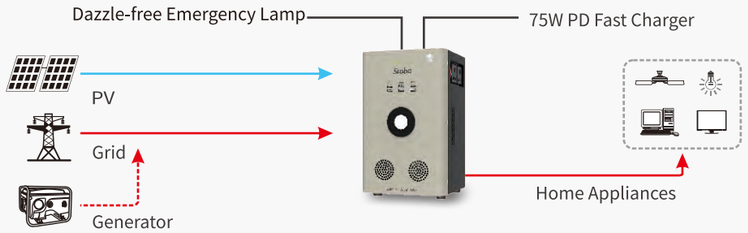
Portable ESS with PD Charging Output
500W / 1000W



Features

- All in one ESS
  (Inverter + LiFePO4 battery + AC charger + MPPT PV charger + PD charger output).
- Pure sine wave output.
- 9 pcs of PD fast charging output ports, max 75W.
- Supports both AC charging and PV Charging.
- Complete protection functions.
- With dazzle-free emergency lamp.

Solar System Connection





Technical Specifications

MODEL	ESS-500W-1KWH PRO	ESS-1000W-2KWH PRO
INVERTER OUTPUT		
Rated AC Output Power	500W	1000W
Output Waveform	Pure Sine Wave	
Output Voltage	230VAC ± 5%, 50Hz	
Low DC Cut-off Voltage	2.7VDC	
Low DC Recover Voltage	2.9VDC	
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
PV INPUT		
Nominal PV Voltage	30VDC	38VDC
MPPT Voltage Range	10-55VDC	
Max. PV Open Circuit Voltage	56VDC	
Max. Solar Charging Current	80A	80A
LiFePO4 BATTERY		
Battery Power	1004.8Wh	2009.6Wh
Nominal Battery Voltage	3.2VDC	6.4VDC
Bulk Charging Voltage	3.6VDC	7.2VDC
Float Charging Voltage	3.5VDC	7.0VDC
Battery Capacity	314Ah	314Ah
Max. Charging Current	220A	220A
Max. Discharging Current	220A	220A
Operating Voltage Range	2.9-3.6VDC	5.8-7.2VDC
Operation Temperature	-10°C ~ 50°C	
Life Cycle	8000 cycles	
DC OUTPUT (PD OUTPUT)		
No of Output Port	3pcs x USB-C + 6pcs x USB-A	
PD Output	Max 25W for each group: 1pc x USB-C + 2pcs x USB-A; totally 3 groups 75W max	
DISPLAY		
Battery Status	4 x LED indicators	
EMERGENCY LAMP		
Emergency Lamp	1 x 9W dazzle-free automobile head lamp	
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)	187x308x182 mm	286x350x262 mm
Net Weight	10.5 kgs	19 kgs
Package Size (L x W x H)	513x378x305 mm	364x326x464 mm
Gross Weight	24.8 kgs	20.8 kgs
Qty / Package	2 pcs	1 pcs

* Sodium battery version is available