

# All-in-one Residential Energy Storage System-S1



## Features

- Vertical industry integration ensures more than 5000 cycles with 80% DoD.
- Integrated inverter design, easy to use and quick to install. Small size, minimizing installation time and cost Compact and stylish design suitable for your sweet home environment.
- The inverter has a variety of working modes. Whether it is used for main power supply in the area without electricity or backup power supply in the area with unstable power to deal with sudden power failure, the system can respond flexibly.
- A variety of charging methods, which can be charged with photovoltaic or commercial power, or both at the same time
- You can use 4 batteries in parallel at the same time, and can provide a maximum of 20kwh for your use.



### High cycle life

4000 cycles @80% DoD for effectively lower total of ownership cost.



### Longer service life

Low maintenance batteries with stable chemistry.



### Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



### Better storage

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



### Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



### Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



### Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.



### Function

Support parallel operation

## 51.2V Energy Storage LiFePO4 Battery-S1



### Specifications

	ZECO-AIO48V05-S1	ZECO-AIO48V10-S1	ZECO-AIO48V15-S1	ZECO-AIO48V20-S1
BATTERY				
Battery Module	1	2	3	4
Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Battery Capacity	100AH	200AH	300AH	400AH
Weight	80kg	133kg	186kg	239kg
Dimension L× D× H	710×450×400	710×450×600	710×450×800	710×450×1000
Battery Type	LiFePO4			
Battery Rated Voltage	51.2V			
Battery Working Voltage Range	44.8 ~ 57.6V			
Maximum Charging Current	100A			
Maximum Discharging Current	100A			
DOD	80%			
Parallel Quantity	4			
Designed Life-span	6000			
PV CHARGE				
Solar Charge Type	MPPT			
Maximum Output Power	5KW			
PV Charging Current Range	0 ~ 80A			
PV Operating Voltage Range	120 ~ 500V			
MPPT Voltage Range	120 ~ 450V			
AC CHARGE				
Maximum Charge Power	3150W			
AC Charging Current Range	0 ~ 60A			
Rated Input Voltage	220/230Vac			
Input Voltage Range	90 ~ 280Vac			
AC OUTPUT				
Rated Output Power	5KW			
Maximum Output Current	30A			
Frequency	50Hz			
Overload Current	35A			
BATTERY INVERTER OUTPUT				
Rated Output Power	5KW			
Maximum Peak Power	10KVA			
Power Factor	1			
Rated Output Voltage (Vac)	230Vac			
Frequency	50Hz			
Auto Switch Period	< 15ms			
THD	< 3%			
GENERAL DATA				
Communication	RS485/CAN/WIFI			
Storage time / temperature	6 months @25°C;3 months @35°C;1 months @45°C;			
Charging temperature range	0 ~ 45°C			
Discharging temperature range	-10 ~ 45°C			
Operation Humidity	5% ~ 85%			
Nominal Operation Altitude	< 2000m			
Cooling Mode	Force-Air Cooling			
Noise	60dB(A)			
Ingress Protection Rating	IP20			
Recommended Operation Environment	Indoor			
Installation Method	Horizontal			
Certification	UN38.3,MSDS,EN55032,EN55024,EN61000-3-2,EN61000-3-3			

