

# All-in-one Residential Energy Storage System-S2



## 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 +45°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-S2



## Specifications

	ZECO-AIO48V05-S2	ZECO-AIO48V05-S2	ZECO-AIO48V05-S2	ZECO-AIO48V05-S2
<b>BATTERY TECHNICAL SPECIFICATION</b>				
Battery model	ZECO-AIO48V05-S2			
Number of batteries	1	2	1	2
Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Battery Capacity	100AH	200AH	300AH	400AH
Weight	80kg	130kg	190kg	230kg
Dimension L x D x H	1190x600x184mm	1800x600x184mm	1800x600x184mm 690x600x184mm	1800x600x184mm 1300x600x184mm
Battery Type	LiFePO4			
Battery Rated Voltage	51.2V			
Battery Working Voltage Range	22.4 ~ 28.8V			
Maximum Charging Current	150A			
Maximum Discharging Current	150A			
DOD	80%			
Designed Life-span	5000			
<b>PV CHARGE</b>				
Solar Charge Type	MPPT			
Maximum Output Power	4000W			
PV Charging Current Range	0~80A			
PV Operating Voltage Range	120~500V			
MPPT Voltage Range	120~450V			
<b>AC CHARGE</b>				
Maximum Charge Power	2240W		1120W	
AC Charging Current Range	0~80A		0~40A	
Rated Input Voltage	220/230Vac		110/120Vac	
Input Voltage Range	90~280Vac		90~140Vac	
<b>AC OUTPUT</b>				
Rated Output Power		3500W		
Maximum Output Current	30A		40A	
Frequency	50Hz		60Hz	
Overload Current	35A		45A	
<b>BATTERY INVERTER OUTPUT</b>				
Rated Output Power		3500W		
Maximum Peak Power		6000VA		
Power Factor		1		
Rated Output Voltage (Vac)	230Vac		120Vac	
Frequency	50Hz		60Hz	
Auto Switch Period		< 15ms		
THD		< 3%		
<b>GENERAL DATA</b>				
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	Vertical			
Certification	UN38.3,MSDS,EN55032,EN55024,EN61000-3-2,EN61000-3-3			