

Zecolex Solar Battery Storage Solution Provider



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Zecolex

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ABOUT US

Zeconex is the leading manufacturer of electric vehicle charging systems, and battery energy storage system with solar inverters integrated in the global market, headquartered in Shenzhen, China.



Our team of ev charger, battery energy storage and inverters manufacturing experts is adept at understanding your energy needs and translating them into ev charger and battery energy storage that will fit right in and last for ages. We use only high-quality and other raw materials to ensure our ev charger, battery energy storage system and inverters are the best in the market.

Our top R&D team both in China and abroad, with rich experience in international protocol, which support us to offer OEM/ODM service for our clients all over the world. Welcome to be our partners.











Our wide range of new energy products are manufactured in-house, so we control all aspects of quality and functionality. We can tailor-make ev charger, battery energy storage system and solar inverter to suit your energy projects helping you realize your clean energy ideas.

Our product portfolio consists of Portable Charger, AC Charger, DC Charger, Power Module and Cloud Management System and Mobile APP, Battery Energy Storage System, Portable Power Station, Home Energy Storage System and Inverters, all independently developed by ourselves. We exported to more than 30 countries and regions since 2012.

Zecoex







Welcome to be our partners!

Why Choose Us



10+ years Expert

More than 10+ years Leading Manufacture in Battery Storage and Solar Inverters Industry.



Quality Control

Zeconex only focus on the best quality Battery Storage and Solar Inverters products to make sure our business partners relieved and long time working with us.



Production Capacity

We own and share 3 factories more than 300 employees and over 20,000 square meters area, each factory focus on different products line.



Strong R&D

We keep on innovation and products developing all days to meet the edge-leading demand of the market. We are good at learning from your suggestion to make the most perfect product.



Lead Time

We have the ability to do large material stock for our standards products to ensure your fast lead time request.



OEM/ODM Customization

Our top R&D team both in China and abroad, with rich experience in international protoco, which support us to offer OEM/ODM service for our clients all over the world.







Pergamet By Elbenshen Agita Preduct Tanling Co., Lik. Address: Building L Mult. Like Read, Pagang Store MRTIG, Shanchan, Suangking, China

Date of Teat: May (5 to Jane 66, 2021) Date of Teatron 56, 2021 Report Runder: A2101134-081-082 Parties Runder: VI



Proposed By : Branches Alpha Product Testing Co. I Address: Building I, Buil, Lines Read, Popeng Bo

Date of Fase: April 25-May 16, 1621 Date of Report: May 14, 2021 Report Mandam: ASTACASE-000-801 Narson Rumber: Vit





About the exhibition







Zecoex







51.2V Energy Storage LiFePO4 Battery-Powerwall-PWG1



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Features

- LCD monitor the energy storage power data and operating status.
- High-quality LiFePO4 battery, safety, deep cycle and long lifespan.
- Air cooling to improve the reliability of the product.
- External main switch to reduce product power consumption and improve safety.
- Foot pads and wall brackets, which can meet the installation and use of different place.
- BMS bulit inside, over-voltage, over-load, over-temperature protection, atc.
- Compatible, can be connected to different types of loads within the voltage range.
- Support up to 15 modules in parallel.

Structural parts description





1. White plate 2. LCD display 3. Black plate 4. Battery bracket 5. Wall mounted bracket 6. Handle 7/8. Module holder 9. Stiffening plate 10. DC fan 11. OFF/ON 12. Communication

13. Output connector

51.2V Energy Storage LiFePO4 Battery-Powerwall-PWG1

Model	ZECO-15050BL-PWG1	ZECO-160100BL-PWG1
Battery Energy	5.12kWh	10.24kWh
Nominal Voltage	51.2V	51.2V
Nominal Capacity	100Ah	200Ah
Effciency	≥96%	≥96%
Inner Resistance	10mΩ	7mΩ
Cell Туре	LiFePO ₄	LiFePO ₄
Charge Voltage	58.4V	58.4V
Standard Charging Current	20A	40A
Max.Continuous Charging Current	1000A	100A
Standard Discharge Current	20A	40A
Continuous Discharge Current	100A	100A
Peak Discharge Current	200A (3s)	200A (3s)
Discharge Cut-off Voltage	42V	42V
Charge Temperature Range	0~60°C	0~60°C
Discharge Temperature Range	-10°C~65°C	-10°C~65°C
Storage Temperature Range	-5~40°C	-5~40°C
Storaqe Humidity	65±20% HR	65±20%HR
Size(LxWxH)	440×170×560mm	440x206x670
Package Size(LxWxH)	625×520×335mm	750×520×385mm
Shell Material	SPCC	SPCC
Net Weight	42Kg	73Kg
Gross Weight	53Kg	91Kg
Package Method	1pcs per carton	1pcs per carton
Cycle Life	>8000 times	>8000 times
Self Discharge	2% per month	2% per month
SOC Indication	LED Light & LCD Screen	LED Light & LCD Screen
Communication Mode	RS485/CAN	RS485/CAN



High cycle life

>8000 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

High Voltage LiFePO₄ Battery Storage System-HVC1

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Features

- Capable of High-Powered Emergency-Backup and Off-Grid Functionality
- Highest Efficiency Thanks to a Real High-Voltage Series Connection
- The Patented Modular Plug Design Requires no Internal Wiring and Allows for Maximum Flexibility and Ease of Use
- Grand A Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Life Cycle, and Power
- Compatible With Leading High Voltage Battery Inverters
- Highest Safety Standards





Structural parts description



48V Energy Storage LiFePO4 Battery-HVG1

Specific	ations		
Datasheet	ZECO-45100BL-HVG1	ZECO-60100BL-HVG1	ZECO-75100BL-H
System Demo			
Battery Module			Z
Number of Modules	3	4	5
Energy Capacity	14.4kWh	19.2kWh	24kWh
Energy Capacity	100Ah	100Ah	100Ah
Battery Voltage	144V	192V	240V
Size(LxWxH)	570×380×833mm	570×380×1000mm	570×380×1167m
Weight	148Kg	189Kg	230Kg
Standard Charge/ Discharge Current	20A	20A	20A
Battery Type			Lith
Nominal Voltage			
Operating voltage Range			
IP Protection			
Installation			
Operation Temperature			
BMS Monitoring Parameters		SOC, Syste	em voltage,current, cell vo
Communication Port			
Waranty: 5 years /10 years			
Standard		Standard	UN38.3, MSDS, IEC626



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VG1	ZECO-90100BL-HVG1	ZECO-105100BL-HVG1	ZECO-105100BL-HVG1
ECO-15	100BL-HV		
	6	7	8
	28.8kWh	33.6kWh	38.4kWh
	100Ah	100Ah	100Ah
	288V	336V	384V
m	570×380×1334mm	570×380×1501mm	570×380×1668mm
	271Kg	312Kg	353kg
	20A	20A	20A
ium Iron	Phosphate (LFP)		
	48V		
40)- 54.7V		
	IP65		
Floor	installation		
-10	0~60°C		
oltage, c	ell temperature, PCBA temper	ature measurement	
	CAN		
Yes	optional		
19.2017	EN IEC61000-3-2 EN IEC61	000-6-1 CE BoHS	



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

All-in-one Residential Energy Storage System-St

Features

- Vertical industry integration ensures more than >8000 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







zecolex



High cycle life >8000 cycles @80% DoD for effectively lower total of



Longer service life

Low maintenance batteries with stable chemistry.



Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



Better storage





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.



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



Function Support parallel operation

48V Energy Storage LiFePO4 Battery-S1

Specifications		
Inverter module	INV1	0KLP1
Output	5120Wh	
Rated output power	10,000W	
Maximum peak power	20,0	000VA
Motor load capacity	6)HP
Wave form	PSW (Pure	e Sine Wave)
Rated output voltage	230V ac (s	single phase)
Maximum parallel capacity	2 units (u	up to 20KW)
Output mode	Off-gri	id/Hybrid
Solar input		
Types of solar charging	Μ	PPT
Maximum solar array power	5,500W	′ + 5,500W
Maximum solar open-circuit voltage	500Vdc	: + 500Vdc
Grid/generator inputs		
Input voltage range	90~275Vac	
Bypass overload current	63A	
Battery charging		
Maximum solar charging current	200A	
Maximum grid/generator charging current	120A	
Routine		
Dimensions (L×W×Hmm)	750×4	470×250
Weight (Kg)	-	~32
Battery module	ZECO-AIO48V13-S1	ZECO-AIO48V26-S1
Battery power	13.44KWh	26.88KWH
Rated voltage	48V	48V
Rated capacity	280Ah	560Ah
Battery type	Squa	are LFP
Cycle life	≥8000 (80%E	DOD, 0.5C, 25°C)
Maximum parallel capacity	4 units (ma	x. 53.76KWh)
Dimensions (L×W×Hmm)	750×470×250	750*940*250
Weight (Kg)	~105Kg	120Kg
Standard	Standard UN20.2 MODE IECO0040.0047	

Inverter module	IN	V10KLP1
Output	5120Wh	
Rated output power	10,000W	
Maximum peak power	:	20,000VA
Motor load capacity		6HP
Wave form	PSW (Pure Sine Wave)	
Rated output voltage	230V a	ic (single phase)
Maximum parallel capacity	2 unit	s (up to 20KW)
Output mode	Off	f-grid/Hybrid
Solar input		
Types of solar charging		МРРТ
Maximum solar array power	5,50	0W + 5,500W
Maximum solar open-circuit voltage	500\	/dc + 500Vdc
Grid/generator inputs		
Input voltage range	90~275Vac	
Bypass overload current	63A	
Battery charging		
Maximum solar charging current	200A	
Maximum grid/generator charging current	120A	
Routine		
Dimensions (L×W×Hmm)	750×470×250	
Weight (Kg)	~32	
Battery module	ZECO-AIO48V13-S1	ZECO-AIO48V26-S1
Battery power	13.44KWh	26.88KWH
Rated voltage	48V	48V
Rated capacity	280Ah	560Ah
Battery type	S	quare LFP
Cycle life	≥8000 (80	%DOD, 0.5C, 25°C)
Maximum parallel capacity	4 units ((max. 53.76KWh)
Dimensions (L×W×Hmm)	750×470×250	750*940*250
Weight (Kg)	~105Kg	120Kg
Standard	Standard UN38.3, MSDS, IEC62619:207	17,EN IEC61000-3-2, EN IEC61000-6-1, CE, RoHS

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All-in-one Residential Energy Storage System-S2



Features

- Vertical industry integration ensures more than >8000 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





High cycle life

>8000 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.

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



Extreme heat tolerance Suitable for use in a wider range of applications



Lightweight



Function

Support parallel operation

51.2V Energy Storage LiFePO4 Battery-S2

Specifications			
Model	ZECO-AIOV0	5C-220V	
Rated Output Power	5,000W		
Max. Peak Power	10,00	DOVA	
Load Capacity of Motor	4HP		
Wave Form	PSW (Pure S	Sine Wave)	
Rated Output Voltage	220Vac (sin	gle-phase)	
Max. Parallel Capacity	2units (up	to10kW)	
Output Mode	Off-grid / Hyb	orid / On-grid	
Solar Charge Type	MP	PT	
Max. Solar Array Power	5,50	0W	
Max. Solar Open Circuit Voltage	500	Vdc	
Input Voltage Range	90~28	30Vac	
Bypass Overload Current	40	A	
Max. Solar Charging Current	100	A	
Max. Grid / Generator Charging Current	60	60A	
Dimension(LxWxH)	400x580x145mm		
Weight	18Kg		
Model	ZECO-AIO48V05-S2	ZECO-AIO48V10-S2	
Battery Module	e a companya da		
Battery Power	5.12kWh (5.12kWh Batteryx1)	10.24kWh (5.12kWh Batteryx2)	
Rated Voltage	51.2V		
Rated Capacity	100Ah		
Battery Type	Prismatic LFP		
Cycling Life Span	≥8000 (80%DOD, 0.5C, 25°C)		
Max. Parallel Capacity	2 units (up to	o 10.24kWh)	
Dimension(LxWxH)	Inverter: 1x400x580x145mm Battery: 1x480x580x145mm	Inverter: 1x400x580x145mm Battery: 2x480x580x145mm	
Weight	73Kg	118Kg	

Model	ZECO-AIOV05	5C-220V
Rated Output Power	5,000W	
Max. Peak Power	10,00	0VA
Load Capacity of Motor	4H	Ρ
Wave Form	PSW (Pure S	ine Wave)
Rated Output Voltage	220Vac (single-phase)	
Max. Parallel Capacity	2units (up	to10kW)
Output Mode	Off-grid / Hyb	rid / On-grid
Solar Charge Type	MP	PT
Max. Solar Array Power	5,50	OW
Max. Solar Open Circuit Voltage	500\	/dc
Input Voltage Range	90~28	OVac
Bypass Overload Current	40	A
Max. Solar Charging Current	100	DA
Max. Grid / Generator Charging Current	60	A
Dimension(LxWxH)	400x580x145mm	
Weight	18Kg	
Model	ZECO-AIO48V05-S2	2ECO-AI048V10-S2
Battery Module		
Battery Power	5.12kWh (5.12kWh Batteryx1)	10.24kWh (5.12kWh Batteryx2)
Rated Voltage	51.2V	
Rated Capacity	100Ah	
Battery Type	Prismatic LFP	
Cycling Life Span	≥8000 (80%DOD, 0.5C, 25°C)	
Max. Parallel Capacity	2 units (up to 10.24kWh)	
Dimension(LxWxH)	Inverter: 1x400x580x145mm Battery: 1x480x580x145mm	Inverter: 1x400x580x145mm Battery: 2x480x580x145mm
Weight	73Kg	118Kg
Standard	Standard UN38.3, MSDS, IEC62619:2017.EN IEC61000-3-2. EN IEC61000-6-1. CE. RoHS	



Features

- Standardized design: standard 3U and 4U case, good applicability
- In parallel to enlarge energy: Add the current limiting module, support multiple battery parallel use, expand the battery capacity, meet the high energy demand of customers.
- Intelligent lithium battery management system: With RS485 communication, you can monitor the battery status at any time and set protection parameters such as charge and discharge according to customers'requirements.
- Warning function: Warning functions such as overcharge, overdischarge, overcurrent, high temperature and low temperature can greatly reduce the potential safety hazard.
- Balancing: Automatic collection of battery single series voltage, pressure difference up to 30MV (can be set), automatic start equalization function.

Structural parts description





LiFePO4 Energy Storage Battery-Rack-BR

Model	ZECO-15050BL-BR	ZECO-150100BL-BR
Battery Energy	2.4kWh	4.8kWh
Nominal Voltage	48V	48V
Nominal Capacity	50Ah	100Ah
Effciency	≥96%	≥96%
nner Resistance	10mΩ	7mΩ
Cell Type	LiFePO ₄	LiFePO ₄
Charge Voltage	54.71V	54.71V
Standard Charging Current	10A	20A
Max.Continuous Charging Current	50A	100A
Standard Discharge Current	25A	50A
Continuous Discharge Current	50A	100A
Peak Discharge Current	100A (3s)	200A (3s)
Discharge Cut-off Voltage	45.5V	45.5V
Charge Temperature Range	0~60°C	0~60°C
Discharge Temperature Range	-20°C~65°C	-20°C~65°C
Storage Temperature Range	-5~40°C	-5~40°C
Storage Humidity	65±20% HR	65±20% HR
Size(LxWxH)	453×493×133mm	520x241x175mm
Package Size (LxWxH)	530×480×230mm	530×540×260mm
Shell Material	SPCC	SPCC
Net Weight	27.5Kg	41Kg
Gross Weight	39.5Kg	47Kg
Package Method	1pcs per carton	1pcs per carton
Cycle Life	>8000 times	>8000 times
Self Discharge	2% per month	2% per month
SOC Indication	LED Light	LED Light
Communication Mode	RS485	RS485/CAN
Matching Inverter	Crowatt Coodure Davis Luvinswiss 7500NEV sta	



High cycle life

>8000 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

High voltage energy storage batteries

Features

- New Class A high-reliability lithium iron phosphate battery, green and environmentally friendly
- Intelligent integrated BMS, all-round protection strategy and fault detection
- Built-in fire extinguishing device, automatically deal with ultra-early warning thermal runaway status
- Bottom tripod design, standard cabinet for easy installation and easy maintenance
- Modular design, parallel expansion, flexible choice of voltage and capacity
- Large capacity, high charging and discharging efficiency, more than 8000 cycles







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Extreme heat tolerance



Suitable for use in a wider range of applications

where ambient temperature is unusually high: up to +45°C.

LFP

51.2

42~58.4

CAN/RS485



Lightweight Lithium batteries provide more Wh/Kg while also





Function Support parallel operation

High voltage energy storage batteries

Product Description	Product	Parameters
Product Model	ZECO-RBG1-64S100BL-U	ZECO-RBG1-96S100BL-U
Module Presentation		
Number Of Modules	4	6
Energy Capacity (Ah)	100	100
Standard Voltage (V)	204.8	307.2
Rated Energy (KWh)	20.48	30.72
Product Dimensions (L×W×Hmm)	548×584×1500	548×584×1500
Net Weight (Kg)	235	340
Standard Charge Current (A)	20	20
Maximum Discharge Current (A)	100	100
P Protection	21	21
Product Model	ZECO-RBG1-128S100BL-U	ZECO-RBG1-192S100BL-U
Module Presentation		
Number Of Modules	8	12
Energy Capacity (Ah)	100	100
Standard Voltage (V)	409.6	614.4
Rated Energy (KWh)	40.96	61.44
Product Dimensions (L×W×Hmm)	548×584×1950	548×584×2750
Net Weight (Kg)	425	595
Standard Charge Current (A)	20	20
Aaximum Discharge Current (A)	100	100
P Protection	21	21



50kW/100kWh **Outdoor Cabinet Energy Storage System**



Features

- High efficiency LFP energy storage, long life design
- Wide-voltage photovoltaic compatibility, intelligent temperature control system
- Modularized design, easy to maintain and expand
- Multiple communication interfaces for remote monitoring and control







System Integration

The system has been commercialized, integrating energy storage batteries, energy storage converters, photovoltaic converters, energy management monitoring systems, power distribution systems, environmental control systems, and fire control systems. It can fully control the operation status and risks of the system.

Intelligent Dispatch

Real-time acquisition of local load power, photovoltaic power generation priority is self-generation and self-use, and surplus electricity storage. When the power generated by photovoltaic power generation is insufficient to provide local load, the battery storage is prioritized.



Environmental Protection

The protection level is IP54, which can perfectly cope with various types of weather in the outdoor environment.



Efficient Cooling

It adopts door-mounted embedded integrated air conditioning, which does not occupy cabinet space, improves the available space of outdoor cabinets, has better structural integrity at the top, and has good waterproof performance.



Convenient Management

The local control screen can achieve diversified functions such as system operation monitoring, energy management strategy development, equipment remote upgrading, etc.

Outdoor Cabinet Energy Storage System

Specifications	/	
Model		
Battery rated capacity		
Battery rated voltage		
Battery voltage range		
Battery type		
Battery cell capacity		
Series of Batery		
Maximum charge and discharge current		
Photovoltaic rated capacity		
Photovoltaic voltage range		
Rated AC power		
Rated AC current		
Rated AC voltage		
Rated AC frequency		
THDI		
Power Factor		
THDU		
Degree of protection		
Protective Class		
Isolation mode		
Shutdown self-discharge		
Display		
Relative humidity		
Noise		
Ambient temperature		
Cooling mode		
Altitude		
Communication interface		
Size (W*D*H)		
Weight (approx.)		
Standard	Standard	111129
otanuaru	Stanuard	001100

ZECO-ESS100(50kW/100kWh) 100kWh 844.8V 739.2V~950.4V Lithium Iron Phosphate batery (LFP) 120Ah 1P*24S*11S 60A 50kW 200~550V 50kW 72A 400V.3W+N+PE/3W+PE 50/60Hz <3% (Rated power) -1 leading to+1 lagging <3%(Linear Load) IP54 No-Isolation(A ding isolation transformer is optional) <100W (Without transformer) LCD 0 ~ 95% (no condensation) <78dB -25°C to +60°C(with derating at temperatures above 45°C) Intelligent air-cooled 3000m (> 3000m reduction) CAN/Ethernet / 485 1300*1030*2100mm 2150kg Standard UN38.3, MSDS, IEC62619:2017, EN IEC61000-3-2, EN IEC61000-6-1, CE, RoHS

100kW/215kWh Commercial Energy Storage System



Features

- High-efficiency energy storage system-100kW/215kWh LFP battery
- Grid-connected photovoltaic compatibility 200-450V wide voltage adaptation
- Intelligent cooling large-capacity battery IP54 protection, 3100kg
- Multiple communication interfaces CAN/Ethernet/485





System Integration

The system has been commercialized, integrating energy storage batteries, energy storage converters, photovoltaic converters, energy management monitoring systems, power distribution systems, environmental control systems, and fire control systems. It can fully control the operation status and risks of the system.

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Intelligent Dispatch

Real-time acquisition of local load power, photovoltaic power generation priority is self-generation and self-use, and surplus electricity storage. When the power generated by photovoltaic power generation is insufficient to provide local load, the battery storage is prioritized.



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Convenient Management

The local control screen can achieve diversified functions such as system operation monitoring, energy management strategy development, equipment remote upgrading, etc.

Commercial Energy Storage System

Specifications		
Model Number		
Battery rated capacity		
Battery rated voltage		
Battery voltage range		
Battery type		
Battery cell capacity		
Series of Batery		
Maximum charge and discharge current		
Photovoltaic rated capacity		
Photovoltaic voltage range		
Rated AC power		
Rated AC current		
Rated AC voltage		
Rated AC frequency		
THDI		
Power Factor		
THDU		
Degree of protection		
Protective Class		
Isolation mode		
Shutdown self-discharge		
Display		
Relative humidity		
Noise		
Ambient temperature		
Cooling mode		
Altitude		
Communication interface		
Size (W*D*H)		
Weight (approx.)		
Standard	Standard	UN38.3,

ZECO-ESS215 (100kW/215kWh)

215kWh

768V

672V~864V

Lithium iron phosphate battery(LFP)

280Ah

1P*20S*12S

140A

100kW

200~450V

100kW

144A

400V, 3W+N+PE/3W+PE

50/60Hz

<3% (Rated power)

-1 leading to+1 lagging

<3%(Linear Load)

IP54

/

No-Isolation(A ding isolation transformer is optional)

<100W (Without transformer)

LCD

0 ~ 95% (no condensation)

<78dB

-25°C to +60°C(with derating at temperatures above 45°C)

Intelligent air-cooled

3000m (> 3000m reduction)

CAN/Ethernet/485

1800*1200*2300mm

3100kg

MSDS, IEC62619:2017,EN IEC61000-3-2, EN IEC61000-6-1, CE, RoHS



Features



- Wide-voltage photovoltaic compatibility, intelligent temperature control system
- Modularized design, easy to maintain and expand
- Multiple communication interfaces for remote monitoring and control





System Integration

The system has been commercialized, integrating energy storage batteries, energy storage converters, photovoltaic converters, energy management monitoring systems, power distribution systems, environmental control systems, and fire control systems. It can fully control the operation status and risks of the system.

Intelligent Dispatch

Real-time acquisition of local load power, photovoltaic power generation priority is self-generation and self-use, and surplus electricity storage. When the power generated by photovoltaic power generation is insufficient to provide local load, the battery storage is prioritized.



Environmental Protection

The protection level is IP54, which can perfectly cope with various types of weather in the outdoor environment.



Efficient Cooling

It adopts door-mounted embedded integrated air conditioning, which does not occupy cabinet space, improves the available space of outdoor cabinets, has better structural integrity at the top, and has good waterproof performance.



Convenient Management

The local control screen can achieve diversified functions such as system operation monitoring, energy management strategy development, equipment remote upgrading, etc.

Outdoor Cabinet Energy Storage System

Model	
Grid port	
Rated power	
Max power	
Rated current	
Max current	
Max.current	
Rated Voltage	
Rated frequency	
Photovoltaic(PV) port	
Max.PV input voltage	
Max.PV input power	
MPPT quantity	
General Parameters	
Degree of protection	
Protective Class	
Power Factor	
THDU	
Isolation mode	
Shutdown self-discharge	
Display	
Relative humidity	
Noise	
Noise	
Ambient temperature	
RMS Communication	
EMS Communication	
EMS Communication	
Dimensions(W [*] D [*] H)	
weight (approx.)	
Model	
Battery rated capacity	
Battery voltage range	
Battery type	
Battery cell capacity	
Series of Battery	
Rated charging rate	
Degree of protection	
Operating ambient temperature	
Storage Temperature	
Cooling mode	
Altitude	
Dimensions (W*D*H)	
Weight (approx.)	
andard	St

ZECO-ESS500(250kW/500kWh)
250kW
275kW
361A
400A
400Vac.3W+N+PE
50Hz(±5Hz)
Minimum battery voltage -30V
250kW
1/5/10
10110
ID55
ir 33
- Treading to+T lagging
<3%(Rated power)
<0.1%Rated Power(Without transformer)
LCD
0 ~ 95% (No condensation)
<78dB
<78dB
-25°C to +60°C(Derating above 45°C)
Intelligent air-cooled
3000m (> 2000m reduction)
CAN
Rs485 / CAN/Ethernet
1300*1000*2300mm
2150kg
5*100kWh
5* 100kWh
844.8V
/39.2V~950.4V
1P*24S*11S
1P
IP55
-20~50°C
-40~50°C
Air cooling
- 3000m (>2000m reduction)
1300*1030*2300mm
1500kg
MSDS, IEC62619:2017,EN IEC61000-3-2, EN IEC61000-6-1, CE, RoHS

500kW/1075kWh Integrated Energy Storage System





Features

- Modular design for flexible capacity expansion up to 1075kWh
- Up to 500kW of direct-drive photovoltaics for efficient utilization
- Intelligent temperature control ensures stable operation in extreme environments
- One-stop integration simplifies installation and maintenance







Diverse Functions

It supports peak shaving and valley filling, demand-side response, backup power supply, and other major functions; it enables remote updates of operational strategies and firmware upgrades, resulting in lower operation and maintenance costs

High Integration

High Integration: The system is productized, integrating energy storage batteries, PCS (Power Conversion System), power distribution, temperature control, fire protection, water immersion door sensors, and monitoring communication, providing comprehensive controlover the system's operational status and risks. One-stop delivery shortens the on-site installation and commissioning period of the project



Flexible and Convenient

Flexible and Convenient: Modular PCS allows for linear expansion of battery units and bidirectional energy storage inverter units; it possesses independent charging and discharging control capabilities for multiple battery packs, enhancing battery utilization and safety



Safe and Intelligent

A fault escalation handling mechanism responds to preset fault scenarios. Customized BMS (Battery Management System) provides comprehensive measurement and protection functions. It supports cloud-based dispatching and operational report analysis.

Integrated Energy Storage System

pecifications		
Model		
Battery parameters		
Battery rated capacity		
Battery voltage range		
Battery pack series and parallel connection		
Maximum charge/discharge current		
Adaptive battery		
Cell Capacity		
PV parameters		
Maximum PV input voltage		
PV Input power		
AC-side parameters (Off-grid)		
Rated AC voltage		
Rated AC frequency		
THDU		
Overload capacity		
General parameters		
Degree of protection		
Protective Class		
Isolation mode		
Shutdown self-discharge		
Display		
Relative humidity		
Noise		
Ambient temperature		
Cooling mode		
Altitude		
Communication interface		
Dimensions (W*D*H)		
Weight (approx.)		
Standard	Standard	UN38.3, I

ZECO-ESS1075(500kW/1075kWh)

215kWh*5

672~864V

1P*20S*12S

140A

LFP

280Ah

Battery minimum voltage -50V

500kW

500kW

50/60Hz (±5Hz)

<3% (Linear Load)

110%, normal operation; 120%, 1 minute

IP20 (Indoor)

/

Transformer isolation

<100W (Without transformer)

LCD

0 ~ 95% (no condensation)

<78dB

-25°C to +60°C(derating above 45°C)

Intelligent air-cooled

2000m (> 2000m reduction)

Rs485 / CAN

1200*1000*2300mm(Energy Storage Converter) 1200*800*2100mm(PV Converter) 12192*2438*2896mm(Container)

~17.5t

Standard UN38.3, MSDS, IEC62619:2017, EN IEC61000-3-2, EN IEC61000-6-1, CE, RoHS

1000KW / 2150KWH **Integrated Energy Storage System**



Features

- High efficiency LFP energy storage, long life design
- Wide-voltage photovoltaic compatibility, intelligent temperature control system
- Modularized design, easy to maintain and expand
- Multiple communication interfaces for remote monitoring and control



System Integration

The system has been commercialized, integrating energy storage batteries, energy storage converters, photovoltaic converters, energy management monitoring systems, power distribution systems, environmental control systems, and fire control systems. It can fully control the operation status and risks of the system.

Intelligent Dispatch

Real-time acquisition of local load power, photovoltaic power generation priority is self-generation and self-use, and surplus electricity storage. When the power generated by photovoltaic power generation is insufficient to provide local load, the battery storage is prioritized.



Environmental Protection

The protection level is IP54, which can perfectly cope with various types of weather in the outdoor environment.



Efficient Cooling

It adopts door-mounted embedded integrated air conditioning, which does not occupy cabinet space, improves the available space of outdoor cabinets, has better structural integrity at the top, and has good waterproof performance.



Convenient Management

The local control screen can achieve diversified functions such as system operation monitoring, energy management strategy development, equipment remote upgrading, etc.

Outdoor Cabinet Energy Storage System

Model	
DC Side Parameters	
Operating Voltage Range	
Full load voltage range	
Maximum DC current	
Adaptive Battery	
Charging Mode	
Operating mode	
AC-side parameters (On-grid)	
Rated/Maximum AC Power	
Rated AC current	
Rated AC voltage	
ГНОІ	
power factor	
AC-side parameters (Off-grid)	
Rated AC voltage	
Rated AC frequency	
THDU	
Overload capacity	
General parameters	
Degree of protection	
Protective Class	
solation mode	
Shutdown self-discharge	
Display	
Relative humidity	
Noise	
Ambient temperature	
Cooling mode	
Altitude	
Communication interface	
Dimensions (W * D * H)	
veight (approx.)	

ZECO-ESS2150(1075W/2150kWh)

680~1000V

680~1000V

200A*8

Lithium Battery/lead acid/photovoltaic modules

As per BMS command/Tri-Stage/MPPT

rent, constant power, MPPT, AC voltage source, DC voltage source

1000/1100kW

180A*8

400V, 3W+N+PE

<3% (Rated Power)

-1 ahead ~ +1 behind

400V

50/60Hz

<3% (Linear Load)

110%, normal operation; 120%, 1 minute

IP21 (Indoor)

1

Transformer isolation

<0.1% rated power (Without transformer)

LCD

0 ~ 95% (no condensation)

<78dB

 -35° to $+60^{\circ}$ (derating above 45°)

Intelligent air-cooled

3000m (> 3000m reduction)

Rs485 / CAN

1200*1000*2100mm(PCS cabinet)

3400kg

Standard UN38.3, MSDS, IEC62619:2017, EN IEC61000-3-2, EN IEC61000-6-1, CE, RoHS

Outdoor Cabinet Energy Storage System

Model	General parameters
Rated power	1000kW
Rated voltage	1443A
Rated AC current	400V
Rated AC frequency	50/60Hz (±5Hz)
Switching mode	Manual Switching, Automatic Transfer
Input	Two Circuits: One Mains Power, One Diesel Generator
Output	One Circuit
Conducting mode	Grid priority
Protection features	With open-phase protection, under-voltage, and voltage loss protection functions
Degree of protection	IP21 (Indoor) ; IP54 (Outdoor)
Relative humidity	0 ~ 95% (No Condensation)
Ambient temperature	-25°C to +60°C (Derating above 45°C)
Altitude	3000m (Derating above 2000m)
Communication interface	CAN/Ethernet / 485
Dimensions (W * D * H)	800*800*2100mm (Indoor)
Weight (Approx.)	600kg (Indoor)

Model	DC500*2
Photovoltaic(PV) port	
PV input voltage	315-550V (Minimum battery voltage -50V)
Max.PV input current	10*160A
MPPT quantity	1/5/10
Battery port	
Battery voltage range	600~950V
DC side bus power	500kW
Number of DC side inputs	1
General Parameters	
Degree of protection	IP21 (Indoor)
Protective Class	1
Power Factor	-1leading to+1 lagging
THDU	<3% (Rated power)
Isolation mode	Transformer isolation
Shutdown self-discharge	<0.1% rated power (Without transformer)
Display	LCD
Relative humidity	0 ~ 95% (No condensation)
Noise	<78dB
Ambient temperature	-25 °C to +60 °C (Derating above 45 °C)
Cooling mode	Intelligent air-cooled
Altitude	3000m (> 2000m reduction)
BMS Communication	CAN
EMS Communication	Rs485 / CAN/Ethernet
Dimensions(W*D*H)	1200*800*2100mm (Indoor)
Weight (approx.)	650kg (Indoor)

Model		
Battery parameters		
Battery rated capacity		
Battery rated voltage		
Battery voltage range		
Battery pack series and parallel conne	ction	N
Adaptive battery		Two Circu
Cell Capacity		
General parameters		
Degree of protection		
Relative humidity		
Noise		
Ambient temperature		-
Cooling mode		
Altitude		
Fire extinguishing system		Perfluorohexane/ł
Communication interface		
Dimensions (W * D * H)	121	196*2438*2896mn
Weight (approx.)		
Standard	Standard	UN38.3, MSDS,

ZECO-ESS2150(1075W/2150kWh)	
1000kW	
1443A	
400V	
50/60Hz (±5Hz)	
Ianual Switching, Automatic Transfer	
uits: One Mains Power, One Diesel Generator	
One Circuit	
IP54	
0 ~ 95% (no condensation)	
<78dB	
-25 °C to +60 °C (derating above 45 °C)	
Intelligent air-cooled	
3000m (> 2000m reduction)	
heptafluoropropane pipeline fire extinguishing system	
Rs485 / CAN	
n (Container); 800*800*2100mm (Combiner Converter)	
27.5t	
IEC62619:2017.EN IEC61000-3-2. EN IEC61000-6-1. CE. RoHS	

Portable Power **Station-PPS**

Features

- LCD monitor the energy storage power data and operating status.
- High-quality LiFePO4 battery, safety, deep cycle and long lifespan.
- Air cooling to improve the reliability of the product.
- External main switch to reduce product power consumption and improve safety.
- Foot pads and wall brackets, which can meet the installation and use of different place.

Product acessories





1. 1800W Portable power station

zecolex

- 2. Power adapter
- 3. Car charger to DC7909 line
- 4. Use manual
- 5. Two-year warranty card
- 6. Portable Hand Bag

Portable Power Station-PPS

Specifications								
Description					Parar	neters		
Mode			ZE	ECO-PPS-600		:	ZECO-PPS-12	00
Rated voltage					100~120Vac/	220~240Vac		
Rated power				600W		1200W		
Peak power				1000W		3600W		
Frequency			50/60Hz					
Rated voltage					12	V		
Rated current					10	A		
USB-A output					5V/3A; 9V/1.5	A (18W Max)		
USB-C output				5V/3A; 9V/	3A; 12A/3A; 15	V/ 3A; 20V/3A (60W Max)	
USB-C output				5V/	3A; 9V/3A; 12A	/1.5A(18W Ma	x)	
LED Light			Thr	7W ee Working Mo	de	5W Three Working Mode		
Input voltage			12V-30V					
Input power			100W Max			200W Max		
Rated capacity			595Wh			992Wh		
Rated voltage			19.2Vdc			32Vdc		
Battery cell type			LiFePO₄					
Waterproof			IP21					
Working tempe	erature		0-40 °C					
Size(LxWxH)			267x197x247mm			330x220x289mm		
Net weight			6.8Kg 11Kg					
Standard			Standard U	IN38.3, MSDS, IE	EC62619:2017,E	N IEC61000-3-2,	EN IEC61000-6-	-1, CE, RoHS
PRODUCT	Laptop (56W)	Mobile Phone (12.4W)	Camera (28W)	Speaker (20W)	Drone (22.2W)	Car refrigerator (65W)	Tablet (30W)	Outdoor light (4W)
ZECO-600 (600W)	Discharge 10 hours	Discharge 48 hours	Discharge 21 hours	Discharge 30 hours	Discharge 27 hours	Discharge 9 hours	Discharge 20 hours	Discharge 150 hours
ZECO-1200 (1200W)	Discharge 21 hours	Discharge 96 hours	Discharge 42 hours	Discharge 60 hours	Discharge 54 hours	Discharge 18 hours	Discharge 40 hours	Discharge 300 hours



Portable Power Station-PPS

Features

- LCD monitor the energy storage power data and operating status.
- High-quality LiFePO4 battery, safety, deep cycle and long lifespan.
- Air cooling to improve the reliability of the product.
- External main switch to reduce product power consumption and improve safety.
- Foot pads and wall brackets, which can meet the installation and use of different place.

Product acessories





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Notes

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 USB-A Output Port*4
USB-C Output Port*2
Main Power On/Off Switch
LCD Screen
Car Charger Output Port
DC 5521 Output Port
DC Output Power On/Off Switch2
AC Output Power On/Off Switch
2400W AC Output Port*5 DC Output Power On/Off Switch1

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1. 1800W Portable power station

- 2. Power adapter
- 3. Car charger to DC7909 line
- 4. Use manual
- 5. Two-year warranty card
- 6. Portable Hand Bag

Handbag Parameters 390*440*65mm Dimension

let weight	1Kg
Suitable for	600W/1200W portable power station

Portable Power Station-PPS

Description	Parameters		
Mode	ZECO-PPS-1800	ZECO-PPS-2400	
Rated voltage	100~120Vac/220~240Vac		
Rated power	1800W	2400W	
Peak power	4000W	4400W	
Frequency	50/60Hz		
Rated voltage	12V		
Rated current	10A		
USB-A output	5V/3A; 9V/1.5A (18W Max)		
USB-C output	5V/3A; 9V/3A; 12A/3A; 15V/3A; 20V/3A (60W Max)		
USB-C output	5V/3A; 9V/3A; 12A/1.5A (18W Max)		
LED Light	5W Three Working Mode	7W Three Working Mode	
nput voltage	12V-30V		
nput power	2x200W Max	2x24V/200W Max	
Rated capacity	1448Wh	1	
Rated voltage	32Vdc /		
Battery cell type	LiFePO₄		
Waterproof	IP21		
Working temperature	0-40 °C		
Size(LxWxH)	385x243x340mm 420x270x313mm		
Net weight	15Kg	20.7Kg	
Standard	Standard UN38.3, MSDS, IEC62619:2017,EN IEC61000-3-2, EN IEC61000-6-1, CE, RoHS		



eaker	Drone	Car refrigerator	Tablet	Outdoor light
0W)	(22.2W)	(65W)	(30W)	(4W)
charge	Discharge	Discharge	Discharge	Discharge
90	81	27	60	450
ours	hours	hours	hours	hours
charge	Discharge	Discharge	Discharge	Discharge
I 20	108	36	80	600
ours	hours	hours	hours	hours

W3 / W5 **Portable Power Station**



Features

- Metal Shell with waterproof socket
- Fast Charging 0-80% in 2.5 hours
- Equipped with UPS function
- LiFePO4 Battery with 3500+Life Cycles to 80%
- IP54 protection, full-scene adaptation
- W5: 5040Wh (48V/105Ah) capacity, 5000W continuous power/7000W peak
- W3: 3072Wh (51.2V/60Ah) capacity, 3600W continuous power/7000W peak

Product acessories



Portable Power Station-PPS

Specifications	/		
Description	Parameters		
Product type	ZECO-PPS-W5	ZECO-PPS-W3	
Capacity	5040Wh (48V;105Ah)	3072Wh (51.2V;60Ah)	
AC Output	110V/4000W(Rated):7000w (Peak)	110V/3600W (Rated)6000w (Peak)	
USB-A output	5V/3A;9V/1.8A; 12V/1.5A (18W Max)	5V/3A;9V/1.8A; 12V/1.5A (18W Max)	
USB-C output	5V/3A;7V/2.4A:9V/1.8A; 12V/1.5A	5V/3A;7V/2.4A:9V/1.8A; 12V/1.5A	
AC Charge Input	100~120V 1800W	100~120V 1800W	
PV(Anderson) Input	12~150Vd.c mppt18-140V 15A Max 2100W Max	12~150Vd.c mppt18-140V 15A Max 2100W Max	
Waveform	Sine Wave	Sine Wave	
Size	33.6*20.2*19.8in (852.5*512*502mm)	33.6*20.2*19.8in (852.5*512*502mm)	
Net Weight	150.57lb (68.3kg)	121.47lb (55.1kg)	
Standard	Standard UN38.3, MSDS, IEC62619:2017,EN IEC61000-3-2, EN IEC61000-6-1, CE, RoHS		





Ground Terminal

AC Output Power On/off Overcurrent Protection



Description

Made up of efficient monocrystalline silicon cells, it can recharge portable power stations, and keep your equipment running without interruption when connected to our portable power station. solar panel, high conversion efficiency up to 20%, pair with 600W to get your solar generator kit. Suited for outdoor adventures or emergency back up for blackouts. The Solar Panel is IP65 water-resistant that will protect from water splashing. solar panel with kickstand: Foldable design and weighs only 5.1kg. Adjust the angle with the built-in kickstand.

Application

• Recharge for Power Station

High Conversion Efficiency

Multiple protection



Solar Generator for Portable Power Station

Technical Specification

Туре	Single Crystal Silicon		
Output Power	100W	220W	
Cell Efficiency	20%-22%	20%	
Power Voltage	19.8V	19.8V	
Power Current	5A	12.1A	
DC Output	18V/100W	18V/220W	
Dimensions	415x370x35 (folded) 1670x415x5 (unfolded)	655x520x35 (folded) 2290x520x5 (unfolded)	
Net weight	4.75Kg 10.5Kg		
Waterproof	IPX4	IPX4	
Operating Temperature Range	-10~70 °C	-10~70 °C	
Packing Dimensions(LxWxH)	480 x 90 x 45mm	750 x 640 x 140mm	





