

Smart Energy Storage Power The World

Product Brochure

GUANGXI ARES ENERGY TECHNOLOGY CO.,LTD

Integrated Energy Solution Provider



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Established in 2020, Guangxi Ares Energy Technology Co., Ltd. is a subsidiary of Guangxi Zhuoneng New Energy Co., Ltd. As a national high-tech company, Zhuoneng New Energy has been specializing in the R&D, production and sales of lithium-ion battery and energy storage system for more than 13 years and is aimed at providing customers with good quality and competitive products and build a better life for the world.

Four product series

VRLA Replacement Battery(LiFePO4) Series

Smart Mobility Series: electric bike, electric tricycle shared swapping battery etc.

Backup Power Series: UPS backup power, telecom backup power etc.

Energy Storage Series: portable energy storage, household energy storage, container energy storage etc.

15GWh

Annual production capacity

66

Hectares factory land

3

Production bases

Patent Introduction

22

 Patents

107

 Pragmatic Patents

112

 Patent Authorization of Appearance Design


Battery Cell



Prismatic Cell

Applications:

Widely used in exploration and mapping, medical equipment, portable testing equipment, energy storage products



Large capacity

Safety

Low internal resistance

Model	LFP50	LFP100	LFP280	LFP315
Material	LFP	LFP	LFP	LFP
Rated Capacity	50Ah	100Ah	280Ah	315Ah
Rated Voltage	3.2V	3.2V	3.2V	3.2V
Voltage Range	2.0V-3.65V	2.0V-3.65V	2.0V-3.65V	2.0V-3.65V
Cycle Life	3000	3500	8000	8000
Dimension (L*W*H)	39*148*95mm	50*160*116mm	72*174*204mm	72*174*204mm

Cylindrical Cell 18650



Model	MP2000	MP2500	MP2600
Material	LFP	NCM	NCM
Rated Capacity	2000mAh	2500mAh	2600mAh
Rated Voltage	3.2V	3.6V	3.6V
Max.Charge Voltage	3.65V	4.2V	4.2V
Discharge Cut-off Voltage	2.0V	2.75V	2.75V
Max. Charge Current	1C	1C	1C
Max. Discharge Current	4C/8A	3C/7.5A	3C/7.8A
Internal Resistance	≤25mΩ	≤25mΩ	≤25mΩ
Weight	43.0±3.0g	45.0±2.0g	45.0±2.0g

Cylindrical Cell 26700



Model	HP4000	HP4500	HP5000
Material	LFP	LFP	LMFP
Rated Capacity	4000mAh	4500mAh	5000mAh
Rated Voltage	3.2V	3.2V	3.7V
Max.Charge Voltage	3.65V	3.65V	4.2V
Discharge Cut-off Voltage	2.0V	2.0V	2.75V
Max. Charge Current	1C	1C	1C
Max. Discharge Current	3C/12A	3C/13.5A	3C/15A
Internal Resistance	≤20mΩ	≤20mΩ	≤20mΩ
Weight	<93g	<97g	<105g

Energy Storage Series



Wall-Mounted Energy Storage

- Support various communication protocols
- Long cycle life, up to 6000 cycles
- Compatible with multiple inverters
- Intelligent battery management system

Convenient installation

Small size

Light weight



All products can be customized

• Specially designed for household energy storage

• Support wall-mounted installation

Model	AHW-5kW/5kWh	AHW-5kW/7kWh
Rated Voltage	51.2V	51.2V
Rated Capacity	100Ah	135Ah
Rated Energy	5.12kWh	6.91kWh
Max. Charge Current	50A	60A
Max. Discharge Current	100A	100A
Expansion Capacity	Support Max. 16 sets in parallel	
Charge Temperature	0~+55°C	
Discharge Temperature	-20~+60°C	
Communication Protocol	RS485/CAN	
Cycle Life	6000Cycles/90%DOD 80%@25°C	
Installation Method	Wall mounted installation	
Weight	45kg	60kg
Cooling System	Natural air cooling	
Protection Level	IP54	
Operating Temperature Range	-20~+60°C	
Dimension (L*W*H)	600*450*180mm	1080*350*170mm

Stacked Energy Storage



Modular-ization Structure

Quick Capacity Expansion

Easy Installation

Model	AHS-5kW/5kWh
Rated Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Max. Charge Current	50A
Max. Discharge Current	100A
Expansion Capacity	Support Max. 16 sets in parallel
Charge Temperature	0~+55°C
Discharge Temperature	-20~+60°C
Communication Protocol	RS485/CAN
Cycle Life	6000Cycles/90%DOD 80%@25°C
Installation Method	Floor-mounted
Weight	42kg
Cooling System	Natural air cooling
Protection Level	IP54
Operating Temperature Range	-20~+60°C
Dimension (L*W*H)	600*394*162mm

Complete Household Electricity Solution

All products can be customized

Support multiple communication protocols

Long cycle life

Intelligent battery management system

Compatible with multiple inverters

Support Max.16 sets in parallel



Racked Energy Storage

All products can be customized

Model	AHR-5kW/5kWh
Rated Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Max. Charge Current	50A
Max. Discharge Current	100A
Expansion Capacity	Support Max. 16 sets in parallel
Charge Temperature	0~+55°C
Discharge Temperature	-20~+60°C
Communication Protocol	RS485/CAN
Cycle Life	6000Cycles/90%DOD 80%@25°C
Installation Method	Plug-and-play
Weight	≈ 42kg
Cooling System	Natural air cooling
Protection Level	IP54
Operating Temperature Range	-20~+60°C
Dimension (L*W*H)	483*480*133mm

Energy Storage Series

Portable Solar Power



- Portable
- UPS Supported
- All Products Can Be Customized

Model	ZC-5kW/5kWh
Battery Parameter	51.2V100Ah
Input Voltage	40-55V
Output Frequency	50/60Hz±5%
Output Voltage	220/230VAC±5%
Max. Continuous Output Power	5000W
Max. Instantaneous Output Power	10000W
Allowed PV Panel Access Voltage/Current	MPPT(120-450V)100A
Output Waveform	Pure sine wave
Max. Conversion Efficiency	94%
AC Charge Parameter	Input : AC95-285V
DC Output	1、USB : 5V/2.1A *2 2、DC: 12V/4A *2 3、TYPEC*2 (optional)
Dimension (L*W*H)	476*380*690mm
Weight	55kg

Container Energy Storage (3.44MWh)



All products can be customized

Specification	1228.8V/280Ah/10Cluster	Output Voltage	690V/AC(3P4W+PE)
Rated Voltage	1228.8V	Storage Temperature Range	-30~+50°C
Cell Capacity	280Ah	Charge Temperature Range	0~+60°C
System Energy	3.44MWh	Discharge Temperature Range	-20~+60°C
Cell Module	10	Communication Protocol	RS485/CAN
Max. continuous charge and discharge rate	Charge:0.5C Discharge:0.5C	Protection Level	IP54
Dimension (L*W*H)	6060*2438*2896mm	Cooling System	Air Cooling/Liquid Cooling
Weight	36T	Off-grid Operation	Support

Energy Storage Series

Industrial and Commercial Energy Storage



All products can be customized

Small floor area

Non-stop power access

Plug and play

Applications:

Suitable for Substation voltage regulation, Capacity expansion, Peak shaving and Uninterrupted power supply.

- Large-size high energy consumption factory
- Energy investor
- Zero carbon emission trader
- Wind/Photovoltaic power station owner
- Industrial and commercial park owner
- Electricity reseller agent
- Energy aggregator
- Agriculture, forestry, animal husbandry etc.

Model	Z-50kW/100kWh	Z-ONE 100kW/ 215kWh
Rated Energy	103.68kWh	215kWh
Rated Capacity	150Ah	280Ah
Rated Voltage	691.2V	768V
Operating Voltage Range	540V-777.6V	600-864V
Max. Charge Current	75A	140A
Max. Discharge Current	100A	160A
Rated Power	50kW	100kW
Max. Output Power	50kW	110kW
Rated AC Voltage	400Vac±10%	400Vac±10%
AC Frequency Range	50Hz	50Hz
Rated AC Current	76A	152A
Output Efficiency	98.00%	98.00%
Grid Connection	3P3L+N+PE/3P3L+PE	3P3L+N+PE/3P3L+PE
Overload Capacity	Overload Alarm Shutdown	110% Continue
Cooling System	Battery System Air Cooling	Battery System Liquid Cooling
Protection Level	IP54	IP54
Noise Level	<70dB	<70dB

Backup Power Series

Characteristics:

Multiple sizes , designed appearance , convenient installation , customized service , support parallel expansion, customized BMS, online communication protocol.

Applications:

Emergency power supply for backup power systems , data processing centers , house-hold backup power, hospitals, banks, small size companies, small base stations etc.



Model	AT-48100	AT-48150	AT-48200
Rated Voltage	51.2V	51.2V	51.2V
Rated Capacity	100Ah	150Ah	200Ah
Weight	44kg	65kg	84kg
Charge Current	0.2C Standard Charging, 0.5C max. Continuous Charging		
Charge Cut-off Voltage	57.6V(CELL/3.60V)		
Discharge Method	CC/CP/CV		
Discharge Current	0.5C Standard Discharging, 1C max. Continuous Discharging		
Display	LED/LCD(optional)		
Communication Protocol	RS485/CAN		
Operating Temperature Range	Charge: 0~ +50°C / Discharge: -20~ +66°C		
Storage Temperature	Short-term storage (<3 months) : -10 ~ +45°C (SOC:20% ~ +60%) Long-term storage (within 1 year) : -10 ~ +40°C (SOC:30% ~ 60%) Note: During storage, the battery must be charged every 3 months (charge time 1-3 hours).		
Storage Humidity	5%~95%(RH)		

Backup Power Series

UPS Backup Power

Characteristics:

- Ac self-start
- Lithium battery pre-charge function
- Compatible with a variety of inverters
- With high stability
- Intelligent battery management system

Applications:

Suitable for Substation voltage regulation, Widely used in uninterrupted power supply applications such as communication data centers, banking systems, traffic command systems, logistics systems, etc.



(OEM product, image for reference only)

Model	AU-384V100Ah
Battery Cell Type	LFP/3.2V/100Ah
Rated Voltage	409V
Operating Voltage Range	320V-460.8V
Rated Energy	40.9kWh
Depth of Discharge	90%
Cycle Life	6000Cycles/90%DOD 80%@25°C
Designed Cycle Life	10 years
Connection Method	Three-phase three-wire /Three-phase four-wire
Protection Level	IP54
Cooling Method	Air Conditioner / Air Cooling
Communication Protocol	RS458\CAN (optional)
Operating Temperature Range	-20~+60°C
Storage Temperature Range	-30~+60°C
Weight	≈500kg
Dimension (L*W*H)	600*800*2000mm

Smart Mobility Series

Self-developed system contains intelligent hardware, mobile APP and cloud service. It manages the battery pack through the Internet of Things , Edge AI Computing , Data Cloud and other internet technology, which makes the equipment more efficient, more intelligent and safer. Applications: Intelligent charging station, battery swap cabinet, battery renting, shared electric bike, express delivery electric tricycle etc.

Shared Charging Battery



All products can be customized

Mobile APP

(Support WeChat mini programs, no need to install APP)

Power level indicator

Real-time monitoring

Fault diagnosis

Abnormal warning

Low electricity alert

Voltage difference inspection

Shared Swapping Battery



Model	AEH-4824	AEH-4830	AEH-6020	AEH-6030
Cell Material	LiFePO4			
Rated Voltage	51.2V	51.2V	64V	64V
Rated Capacity	24Ah	30Ah	20Ah	30Ah
Rated Energy	1228.8Wh	1536Wh	1280Wh	1920Wh
Operating Voltage Range	40V~58.4V	40V~58.4V	50V~73V	50V~73V
Max. Continuous Input Current	12A	15A	10A	15A
Max. Continuous Output Current	25A	35A	25A	35A
Max. Peak Discharge Current	50A	60A	50A	70A
Cycle Life	2000Cycles/90%DOD≥75%@25			
Dimension (L*W*H)	183*156*263mm	183*154*305mm	183*154*305mm	166*187*330mm
Weight	≈ 9.5kg	≈ 13.5kg	≈ 12.5kg	≈ 16.5kg
Communication Mode	RS485/ISDN(Supports Remote OTA Upgrades)			
Optional Interfaces	Pin Type Plug			

Smart Mobility Series



Power Battery

- High performance stable output
- Long cycle life
- Wide range of temperature applications
- Intelligent battery management system



(OEM product, image for reference only)

Model	AE-4808	AE-4810	AE-4812	AE-4818
Cell Material	NCM			
Rated Voltage	46.8V	46.8V	46.8V	46.8V
Rated Capacity	7.5Ah	10Ah	12.5Ah	17.5Ah
Rated Energy	351Wh	468Wh	585Wh	819Wh
Charge cutoff voltage	54.6V	54.6V	54.6V	54.6V
Discharge cutoff voltage	36.4V	36.4V	36.4V	36.4V
Max Charge Current	5A	5A	5A	5A
Max Discharge Current	25A	25A	30A	30A
Cycle Life	800Cycles/90%DOD 80%@25°C			
Dimension (L*W*H)	368*90*138mm	368*90*138mm	347*112*148mm	347*112*148mm
Weight	≈ 2.5g	≈ 3.1kg	≈ 3.7kg	≈ 5kg

VRLA Replacement Battery(LiFePO4) Series

Characteristics: light weight, high energy density, long cycle life, no memory effect, short charging time.

Applications: low-speed vehicles, two/three-wheelers, solar energy/ wind energy storage system, UPS, backup power, telecommunication, medical equipment, lighting equipment etc.



Model	AQ-12.8V8Ah	AQ-12.8V50Ah	AQ-12.8V100Ah	AQ-12.8V300Ah	AQ-25.6V50Ah	AQ-25.6V100Ah
Configuration	4S2P	4S12P	4S1P	4S1P	8S1P	8S1P
Rated Voltage	12.8V	12.8V	12.8V	12.8V	25.6V	25.6V
Operating Voltage Range	10-14.4V	10-14.4V	10-14.4V	10-14.4V	20-28.8V	20-28.8V
Rated Capacity	8Ah	52.2Ah	100Ah	280Ah	50Ah	100Ah
Rated Energy	102.4Wh	668.16Wh	1280Wh	3584Wh	1280Wh	2560Wh
Max. Continuous Charge Current	4A	25A	50A	50A	25A	50A
Max. Continuous Discharge Current	15A	50A	100A	150A	50A	100A
Support Series Connection	4	4	4	4	2	2
Cycle Life	2000	2000	3000	3000	2000	3000
Protection Level	IP65					
Communication Protocol	Customizable, Bluetooth optional					
Weight	1kg	6kg	11kg	26kg	11kg	22kg
Dimension (mm)	L:151 W:65 H:94	L:225 W:147 H:183	L:330 W:172 H:215	L:520 W:269 H:217	L:260 W:168 H:209	L:520 W:220 H:225

Service Procedure

- Steps:
- ① Sales team provides solutions and signs contract based on specific actual situations.
 - ② Pre-sales: Professional technicians provide detailed information on system design, site selection, grid-connected and other issues.
 - ③ Installation: Remote installation guidance for integrated equipment by professional personnel.
 - ④ After-sales: One-to-one service for providing technical guidance and troubleshooting support etc.
 - ⑤ Maintenance: Professional team provides free service for maintaining, inspecting and training as needed.

After-sales feedback: Within 24hs

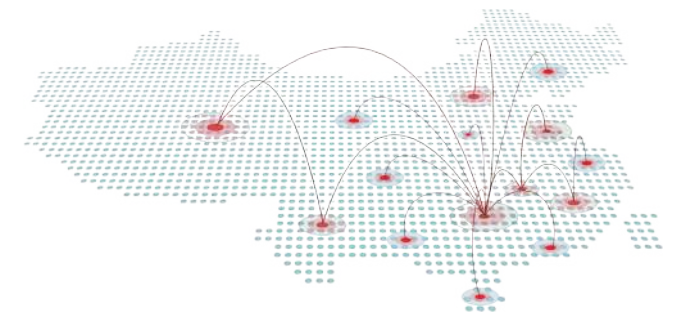
VIP : Onsite Service

Systematic service: Professional training, remote instruction, maintenance empowerment and free inspection during warranty period.

After-sales Service Network

Provide green energy for global customers

Ares Energy is committed to being customer-centric and market-driven, continuously invests in R&D, innovating in areas such as structures, marketing, management, and business models.



We collaborate with partners from various fields, leading the way in the innovation and development of lithium battery and energy storage technologies.



Our mission is to promote a low-carbon, green and sustainable high-quality industry and be a respected leading enterprise.