

-PIONEERING SMART OFF-GRID SOLUTIONS-

Zhejiang APsolway Technology Co., Ltd.,

ADD: 10th Floor, Haizhou Star, Xiuzhou District, Jiaxing City,
Zhejiang, China 314000

Mp: +86-13819379269 / 15726870289

Tell: +86-573-83705988

Fax: +86-573-83705966

E-mail: info@apsolway.com



**PRODUCT
INTRODUCTION**



ABOUT APsolway

Zhejiang APsolway Technology Co., Ltd., is a high-tech manufacturer specializing in power electronics. The company is publicly listed on the SSE STAR Market (Stock Code: 688348). Headquartered in Jiaxing, Zhejiang Province, it also operates a production base in the same city. To support its global reach, the company has established branches and subsidiaries in key international markets, including Texas (USA), Leipzig (Germany), Amsterdam (Netherlands), Brisbane (Australia), Paris (France), Mexico, and other major regions.

Zhejiang APsolway Technology Co., Ltd., a subsidiary of Altenergy Power System Inc., focuses on residential energy storage solutions. The company is dedicated to the research, development, and production of hybrid and off-grid inverters, offering single-phase, three-phase, and split-phase models ranging from 3 to 20 kW.

As a leading provider of residential solar energy storage solutions, APsolway stands out with innovative designs and a range of unique, differentiated features. We also offer OEM/ODM services and can deliver fully customized solutions to meet our customers' specific needs.



16 years+
Module Production



10 +
Overseas Offices



100 +
Client Country



2 times
Annual Growth

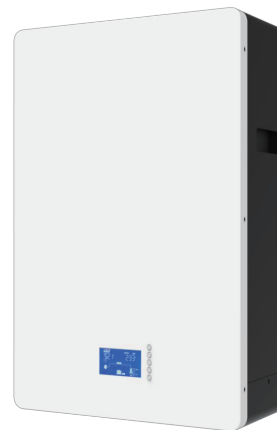


100,00 +
Service Clients



WAL-MOUNTED HOME STORAGE BATTERY BOX YH-ESS-B100S16

- High safety, long life: the selection of high consistency, safety and reliability of lithium ironphosphate batteries
- Flexible capacity expansion on demand: Support 10 in parallel to expand capacity to meet different specifications of electricity demand
- Compact design, small footprint, easy installation
- Communication supports CAN, RS485, RS232
- Integrated design, beautiful green products, non-toxic and non-polluting
- Can be matched with the world's mainstream brand inverters, such as: Victron, Voltronic, SMA, Aiswei, Studer, Goodwe, Growatt



WAL-MOUNTED HOME STORAGE BATTERY BOX YH-ESS-B100S16-F

- High safety, long life: the selection of high consistency, safety and reliability of lithium ironphosphate batteries
- Flexible capacity expansion on demand: Support 10 in parallel to expand capacity to meet different specifications of electricity demand
- Compact design, small footprint, easy installation
- Communication supports CAN, RS485, RS232
- Integrated design, beautiful green products, non-toxic and non-polluting
- Can be matched with the world's mainstream brand inverters, such as: Victron, Voltronic, SMA, Aiswei, Studer, Goodwe, Growatt

PRODUCT MODEL	YH-B100S16
Cell type	LFP cylindrical battery
Cell specifications	3.2V50Ah
Number of battery modules	Support 1~8 parallel connections
Rated capacity	100Ah
Rated total energy	5.12kWh (single)
Rated voltage	51.2V
ELECTRICAL PARAMETERS	
Voltage range	43.2~58.4V
Standard charge current	0.5C@ lasts
Maximum charge current	1c@ pulse
Standard discharge current	0.5C@ lasts
Maximum discharge current	1c@ pulse
STRUCTURAL PARAMETERS	
Weight	40kg (single)
Size (height * width * depth)	700x500x145mm(Single)
Protection class	IP54
Cooling mode	Free cooling
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C
Operating humidity	5~95%,relative humidity
Communication methods	CAN, RS485 ,RS232
Alarm & Protection	Yes
LED status	Alarm/Run/SOC
Installation mode	Wall-mounted

PRODUCT MODEL	YH-B100S16-F
Cell type	EVE-LFP square battery cell
Cell specifications	3.2V100Ah
Number of battery modules	Support 1~8 parallel connections
Rated capacity	100Ah
Rated total energy	5.12kWh (single)
Rated voltage	51.2V
ELECTRICAL PARAMETERS	
Voltage range	43.2~58.4V
Standard charge current	0.5C@ lasts
Maximum charge current	1c@ pulse
Standard discharge current	0.5C@ lasts
Maximum discharge current	1c@ pulse
STRUCTURAL PARAMETERS	
Weight	38kg (single)
Size (height * width * depth)	490x360x170mm(Single)
Protection class	IP54
Cooling mode	Free cooling
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C
Operating humidity	5~95%,relative humidity
Communication methods	CAN, RS485 ,RS232
Alarm & Protection	Yes
LED status	Alarm/Run/SOC
Installation mode	Wall-mounted



HOUSEHOLD LIGHT STORAGE INTEGRATED MACHINE YH-ESS-BP100S16

- High safety, long life: the selection of high consistency, safety and reliability of lithium ironphosphate batteries
- With methods of mains power bypass, inverter output, photovoltaic power generation, etc.,and has the function of uninterrupted power supply
- Four charging modes: Solar mode,Priority power frequency AC, Priority solar , hybrid charging
- Communication supports CAN, RS485, RS232
- Integrated design of battery and inverter module,the product is beautiful and green environmental protection, non-toxic and non-polluting
- Complete short circuit protection, over-undervoltage protection, overload protection, back-irrigation protection and many other protection functions



WAL-MOUNTED HOME STORAGE BATTERY BOX YH-ESS-BP100S16

- High safety, long life: the selection of high consistency, safety and reliability of lithium ironphosphate batteries
- With methods of mains power bypass, inverter output, photovoltaic power generation, etc.,and has the function of uninterrupted power supply
- Four charging modes: Solar mode,Priority power frequency AC, Priority solar , hybrid charging
- Communication supports CAN, RS485, RS232
- Integrated design of battery and inverter module,the product is beautiful and green environmental protection, non-toxic and non-polluting
- Complete short circuit protection, over-undervoltage protection, overload protection, back-irrigation protection and many other protection functions

PRODUCT MODEL	YH-ESS-BP100S16
Cell type	LFP cylindrical battery-3.2V50Ah
Rated capacity	100Ah
Rated total energy	5.12KWh
Rated voltage	51.2V
Voltage range	43.2~58.4V
PHOTOVOLTAIC POWER GENERATION PARAMETERS	
Maximum output power	5000V
MPPT voltage range	120~450V
Solar charging current	0~80A
AC PARAMETERS	
Rated output power	5000W
Rated output voltage	230Vac(200/208/220/240Vac)±5%
Output frequency range	50Hz±0.3Hz/60Hz±0.3 Hz
Efficiency	input>95% ,output>90%
SYSTEM PARAMETERS	
Weight	55kg
Size (height * width * depth)	1020*440*150mm
Protection class	IP54
Cooling mode	Forced air cooling
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C
Operating humidity	5~95%,relative humidity
Installation mode	Wall-mounted
Communication methods	CAN, RS485 ,RS232

PRODUCT MODEL	YH-ESS-BP100S16-F	YH-ESS-BP200S16-F
Cell type	LFP cylindrical battery-3.2V50Ah	
Rated capacity	100Ah	200Ah
Rated total energy	5.12KWh	10.24KWh
Rated voltage	51.2V	
Voltage range	43.2~58.4V	
PHOTOVOLTAIC POWER GENERATION PARAMETERS		
Maximum output power	5000V	
MPPT voltage range	120~450V	
Solar charging current	0~80A	
AC PARAMETERS		
Rated output power	5000W	
Rated output voltage	230Vac(200/208/220/240Vac)±5%	
Output frequency range	50Hz ± 0.3Hz / 60Hz ± 0.3 Hz	
Efficiency	input>95% ,output>90%	
SYSTEM PARAMETERS		
Weight	45kg	85kg
Size (height * width * depth)	800*480*180mm	1120*480*180mm
Protection class	IP54	
Cooling mode	Forced air cooling	
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C	
Operating humidity	5~95%,relative humidity	
Installation mode	Wall-mounted	
Communication methods	CAN, RS485 ,RS232	

MODULAR FLOOR-STANDING HOME STORAGE YH-ESS-BP50S16-MP&S



- High safety, long life: the selection of high consistency, safety and reliability of lithium iron phosphate batteries
- With methods of mains power bypass, inverter output, photovoltaic power generation, uninterrupted power supply function and so on
- Communication support CAN, RS485, RS232
- Modular design, support 1 ~ 8 battery box series-parallel connection
- Complete short circuit protection, over-voltage protection, overload protection, back-irrigation protection and many other protection functions
- Match the world's mainstream brand inverters, such as: Victron, Voltronic, SMA, Aiswei, Studer, Goodwe, Growatt, etc.



MODULAR FLOOR-STANDING HOME STORAGE YH-ESS-BP100S16-MP&S-F

- High safety, long life: the selection of high consistency, safety and reliability of lithium iron phosphate batteries
- With methods of mains power bypass, inverter output, photovoltaic power generation, uninterrupted power supply function and so on
- Communication support CAN, RS485, RS232
- Modular design, support 1 ~ 8 battery box series-parallel connection
- Complete short circuit protection, over-voltage protection, overload protection, back-irrigation protection and many other protection functions
- Match the world's mainstream brand inverters, such as: Victron, Voltronic, SMA, Aiswei, Studer, Goodwe, Growatt, etc.

PRODUCT MODEL	YH-ESS-BP50S16-MP	YH-ESS-BP50S16-MS
Cell type	LFP cylindrical battery-3.2V50Ah	
Rated capacity	50Ah	50Ah
Rated total energy	2.56-20.48KWh	2.56-20.48KWh
Rated voltage	51.2V(Single)	
Voltage range	43.2~58.4V	345.6-467.2V (Up to 8 groups in series)
PHOTOVOLTAIC POWER GENERATION PARAMETERS		
Maximum output power	5000W	
MPPT voltage range	120~450V	
Solar charging current	0~80A	
AC PARAMETERS		
Rated output power	5000W	
Rated output voltage	230Vac(200/208/220/240Vac)±5%	
Output frequency range	50Hz ± 0.3Hz / 60Hz ± 0.3Hz	
Efficiency	input>95% ,output>90%	
SYSTEM PARAMETERS		
Weight	25kg/15kg	25kg/12kg
Size of battery box(height * width * depth)	655*355*160mm	655*355*160mm
Size of control box(height * width * depth)	655*355*190mm	655*355*140mm
Protection class	IP54	
Cooling mode	Free cooling	
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C	
Installation mode	stackable	
Communication methods	CAN, RS485 ,RS232	

PRODUCT MODEL	YH-ESS-BP100S16-MP-F	YH-ESS-BP100S16-MS-F
Cell type	EVE-LFP square battery cell-3.2V100Ah	
Rated capacity	100Ah	100Ah
Rated total energy	5.12-40.96KWh	5.12-40.96KWh
Rated voltage	51.2V(Single)	
Voltage range	43.2~58.4V	345.6-467.2V (Up to 8 groups in series)
PHOTOVOLTAIC POWER GENERATION PARAMETERS		
Maximum output power	5000W	
MPPT voltage range	120~450V	
Solar charging current	0~80A	
AC PARAMETERS		
Rated output power	5000W	
Rated output voltage	230Vac(200/208/220/240Vac)±5%	
Output frequency range	50Hz ± 0.3Hz / 60Hz ± 0.3Hz	
Efficiency	input>95% ,output>90%	
SYSTEM PARAMETERS		
Weight	40kg/15kg	40kg/12kg
Size of battery box(height * width * depth)	675*375*160mm	675*375*160mm
Size of control box(height * width * depth)	675*375*190mm	675*375*140mm
Protection class	IP54	
Cooling mode	Free cooling	
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C	
Installation mode	stackable	
Communication methods	CAN, RS485 ,RS232	

**PORTABLE MOBILE POWER BOX
YH-PX100S8**



- High safety, long life: the selection of high consistency, safety and reliability of lithium iron phosphate batteries
- With methods of mains power bypass, inverter output, photovoltaic power generation ,uninterrupted power supply function and so on
- Maximum power output 3000W, maximum energy 2560Wh
- Support 12V/24V/USB/220V and other output modes
- Trailer type design, easy to carry and transport
- Fireproof and wear-resistant shell to ensure the safety of electricity
- Complete short circuit protection, over-voltage protection, overload protection
- back-irrigation protection and many other protection functions

**STANDARD CABINET TYPE ENERGY STORAGE BATTERY BOX
YH-ESS-B48100-B**



- High safety, long life: the selection of high consistency, safety and reliability of lithium iron phosphate batteries
- Flexible capacity expansion on demand: support 10 in parallel to expand capacity to meet different specifications of electricity demand
- With overcharge, overdischarge, overcurrent, short circuit, overtemperature, data reading function
- Communication support CAN, RS485, RS232
- With power indicator function / LCD display function
- Low power consumption, with data history anomaly record query

PRODUCT MODEL	YH-PX100S8
Cell type	LFP cylindrical battery-3.2V50Ah
Rated capacity	100Ah
Rated total energy	2.56KWh
Rated voltage	25.6V
Voltage range	21.6~29.2V
PHOTOVOLTAIC POWER GENERATION PARAMETERS	
Maximum output power	140W
Operating voltage	12/24V
Maximum charge current	20A
AC PARAMETERS	
Rated output power	3000W
Rated output voltage	230Vac±5%
Output frequency range	50Hz±0. 3Hz
Efficiency	input>95% ,output>90%
SYSTEM PARAMETERS	
Weight	25kg
Size (height * width * depth)	550*305*203mm
Protection class	IP54
Cooling mode	Free cooling
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C
Operating humidity	5~95%,relative humidity
Installation mode	Trailer Box
Communication methods	CAN, RS485 ,RS232

PRODUCT MODEL	YH-B100S16-F	YH-B100S16-F
Cell type	LFP cylindrical battery	
Cell specifications	3.2V50Ah	3.2V100Ah
Number of battery modules	Supports up to 8 battery boxes in parallel	
Rated capacity	50Ah	100Ah
Rated total energy	2.56kWh	5.12kWh
Rated voltage	51.2V or 48V	
ELECTRICAL PARAMETERS		
Voltage range	43.2~58.4V	
Standard charge current	0.5C@ lasts	
Maximum charge current	1c@ pulse	
Standard discharge current	0.5C@ lasts	
Maximum discharge current	1c@ pulse	
STRUCTURAL PARAMETERS		
Weight	26kg	40kg
Size (height * width * depth)	482x135x480mm	482x200x480mm
Protection class	IP54	
Cooling mode	Free cooling	
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C	
Operating humidity	5~95%,relative humidity	
Communication methods	CAN, RS485 ,RS232	
Alarm & Protection	Yes	
LED status	Alarm/Run/SOC	
Installation mode	Rack Mount	

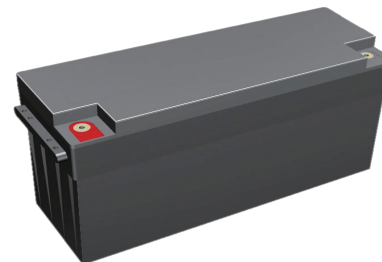
STANDARD CABINET TYPE ENERGY STORAGE BATTERY BOX YH-ESS-B48100-BF



- High safety, long life: the selection of high consistency, safety and reliability of lithium iron phosphate batteries
- Flexible capacity expansion on demand: support 10 in parallel to expand capacity to meet different specifications of electricity demand
- With overcharge, overdischarge, overcurrent, short circuit, overtemperature, data reading function
- Communication support CAN, RS485, RS232
- With power indicator function / LCD display function
- Low power consumption, with data history anomaly record query

PRODUCT MODEL	YH-B100S16-F
Cell type	EVE-LFP square battery cell
Cell specifications	3.2V/100Ah
Number of battery modules	Supports up to 8 battery boxes in parallel
Rated capacity	100Ah
Rated total energy	5.12kWh
Rated voltage	51.2V or 48V
ELECTRICAL PARAMETERS	
Voltage range	43.2~58.4V
Standard charge current	0.5C@ lasts
Maximum charge current	1c@ pulse
Standard discharge current	0.5C@ lasts
Maximum discharge current	1c@ pulse
STRUCTURAL PARAMETERS	
Weight	40kg
Size (height * width * depth)	482x135x480mm
Protection class	IP54
Cooling mode	Free cooling
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C
Operating humidity	5~95%,relative humidity
Communication methods	CAN, RS485 ,RS232
Alarm & Protection	Yes
LED status	Alarm/Run/SOC
Installation mode	Rack Mount

12V SERIES LITHIUM BATTERY MODULE YH-12-B100/B150/B200



- High consistency, safety and reliability of lithium iron phosphate batteries
- Dimensions of the battery box are exactly the same as those of existing lead-acid
- Charge and discharge cycle can reach about 2000 times
Integrated design, beautiful green products, non-toxic and non-polluting
- Compared with lead acid, it has higher energy, longer life and lighter weight

PRODUCT MODEL	YH-12-B100	YH-12-B150	YH-12-B200
Cell type	EVE-LFP square battery cell(or cylindrical battery)		
Cell specifications	3.2V/100Ah	3.2V/50Ah	3.2V/100Ah
Rated capacity	100Ah	150Ah	200Ah
Rated total energy	1.28kWh	1.92kWh	2.56kWh
Rated voltage	12.8V		
ELECTRICAL PARAMETERS			
Voltage range	10.8~14.6V		
Standard discharge current	0.5C@ lasts		
Maximum discharge current	1c@ pulse		
STRUCTURAL PARAMETERS			
Weight	10kg	17kg	20kg
Size (height * width * depth)	330x172x215mm	483x170x240mm	522x240x218mm
Cooling mode	Free cooling		
Ambient temperature	Charge:0~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C		

24V ON-BOARD POWER MODULE

YH-C-50S8



- The main function provides a stable DC power supply for the terminal equipment
- Features include on-board charging and external adapter fast charging
- Can communicate with the terminal, can transmit the remaining power, voltage, current and charging and discharging status and other information
- With a battery management system, it can realize functions such as charge and discharge protection and voltage limiting and current limiting

PRODUCT MODEL	YH-C-50S8
Cell type	LFP cylindrical battery
Cell specifications	3.2V50Ah
Rated capacity	50Ah
Rated total energy	1.28kWh
Rated voltage	12.8V
ELECTRICAL PARAMETERS	
Voltage range	21.6~29.2V
Standard discharge current	0.5C@ lasts
Maximum discharge current	1c@ pulse
STRUCTURAL PARAMETERS	
Weight	15kg
Size (height * width * depth)	315x295x190mm
Cooling mode	Free cooling
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C

ENERGY STORAGE SYSTEM 38.4V SERIES BATTERY MODULE

YH-ESS-B280/B300S12



- High consistency, safety and reliability of lithium iron phosphate batteries
- Unique design, reliable heat dissipation of the battery cell, module temperature difference <3 °C
- Panel integrated fan, acquisition module, communication, detachable design
- Support 1000V/1500V system, leading technology
- Modular design, flexible shipping and easy installation

PRODUCT MODEL	YH-ESS-B280S12	YH-ESS-B300S12
Cell type	LFP cylindrical battery-3.2V50Ah	EVE-LFP square battery cell-3.2V280Ah
Cell specifications	6P12S	1P12S
Rated capacity	300Ah	280Ah
Rated total energy	11.52kWh	10.75kWh
Rated voltage	38.4V	
ELECTRICAL PARAMETERS		
Voltage range	32.4~43.2V	
Standard discharge current	0.5C@ lasts	
Maximum discharge current	1c@ pulse	
STRUCTURAL PARAMETERS		
Weight	90kg	80kg
Size (height * width * depth)	482x270x650mm	400x230x640mm
Cooling mode	Forced air cooling	
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C	