

# PIONEERING SMART SOLAR POWER SOLUTIONS



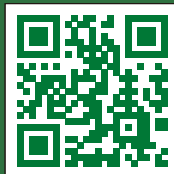
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## 2025 | PRODUCT INTRODUCTION



# ABOUT APsolway

## Zhejiang APsolway Technology Co., Ltd. (APsolway)

APsolway is a subsidiary of Altemergy Power System Inc. (SSE STAR Market, Stock Code: 688348) and has been deeply involved in the global renewable energy industry for more than 10 years. Upholding the vision of “delivering high-quality products and meeting people’s power needs for off-grid living,” the company provides integrated intelligent PV and energy-storage system solutions to global customers, covering solar inverters, residential ESS, commercial & industrial ESS, and vehicle-mounted mobile energy systems.

As a national high-tech enterprise integrating R&D, manufacturing, and sales, APsolway is a well-recognized ODM manufacturer and SKD supplier, fully committed to supporting the growth of our customers’ brands. We focus on offering cost-effective, high-efficiency, and intelligent PV and energy-storage products to global users.

APsolway currently operates a 47,000 m<sup>2</sup> smart manufacturing facility, equipped with advanced R&D capabilities, intelligent production systems, and high-efficiency delivery capacity. APsolway continuously develops cutting-edge core technologies and has obtained over 100 patents and more than 30 international patent certifications. The company has been repeatedly recognized as a National High-Tech Enterprise and a National “Little Giant” Specialized and Innovative Enterprise.

To better serve the global market, APsolway conducts R&D and manufacturing in China while establishing service centers in multiple countries for localized support. The headquarters is located in Jiaxing, China, with service centers in Leipzig, Germany (Europe), Burkina Faso (West Africa), Iran (Middle East), and Cambodia (South Asia). Additional branches and subsidiaries will continue to be established in other major international markets.



**10** years+  
Production Experience



**47000** m<sup>2</sup> +  
smart manufacturing facility



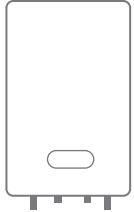
**100** +  
patents



**30** +  
international patent certifications

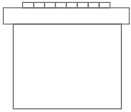


# Perfect for home free movement & easy to install



Wall-mounted battery

25.6/51.2V  
100/200Ah



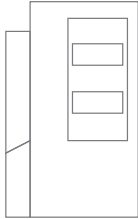
Lithium Battery

12.8/25.6V  
12/24/50/80/100/  
150/200Ah



Standing position battery

25.6/51.2/307.2V  
200/205/280/300/314Ah



Supporting PV access battery

50KW/112KWh



Rack/cabinet type battery

48/51.2/409.6/563.2/614.4V  
100/200/300/314Ah



Stacked lithium batteries

51.2V  
100Ah

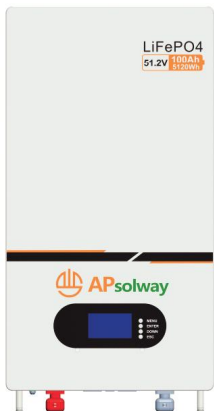
Lithium-ion Battery

# LITHIUM-ION BATTERY

51.2V 100/200Ah



- Lithium iron phosphate grade A battery cells
- Parallel support for 16 units
- Compatible with multiple inverter brands
- 4,000 loops @DOD80%
- BMS 100A/200A are available for selection
- LCD display screen



Usage scenarios



MODEL	51.2V100Ah		51.2V200Ah		
Pack configuration	16S1P		16S2P		
Charge Voltage	58.4V(3.65V/Cell)				
Discharge cut-off Voltage	47V(Single-cell overdischarge protection2.8V)				
Nominal Voltage	51.2V(3.2V/Cell)				
Minimum Capacity	100Ah @ 0.5C discharge		200Ah @ 0.5C discharge		
Nominal Capacity	100Ah @ 0.5C discharge		200Ah @ 0.5C discharge		
Nominal Energy	5120Wh @ 0.5C discharge		10240Wh @ 0.5C discharge		
Max Charge Current	100A		200A		
Max Cont Discharge Current	100A		200A		
Standard Charge	0.5C constant current to 58.4V, CV to taper currents≤0.05C				
Standard Discharge	0.5C constant current to 47V				
Pack Weight	Appr55Kg		Appr94Kg		
Shipment Voltage	51.2~52.8V		51.2~52.8V		
Operating Temperature	Charge	0°C ~55°C: standard charging method		Charge	0°C ~55°C: standard charging method
	Discharge	-30°C ~55°C		Discharge	-30°C ~55°C
Capacity	≥100Ah		≥200Ah		
Cycle Life	≥4000cycles				

## Lithium-ion Battery



# Lithium-ion Battery

## LITHIUM-ION BATTERY

51.2V 300Ah



- Lithium iron phosphate grade A battery cells
- Parallel support for 16 units
- Compatible with multiple inverter brands
- 4,000 loops @DOD80%
- BMS 300A
- LCD display screen



## Usage scenarios



## Technical Data

MODEL	51.2V300Ah	
Pack configuration	16S1P	
Charge Voltage	58.4V(3.65V/Cell)	
Discharge cut-off Voltage	47V(Single-cell overdischarge protection2.8V)	
Nominal Voltage	51.2V(3.2V/Cell)	
Minimum Capacity	300Ah @ 0.5C discharge	
Nominal Capacity	300Ah @ 0.5C discharge	
Nominal Energy	15360Wh @ 0.5C discharge	
Max Charge Current	200A	
Max Cont Discharge Current	200A	
Standard Charge	0.5C constant current to 58.4V, CV to taper currents≤0.05C	
Standard Discharge	0.5C constant current to 47V	
Pack Weight	Appr110Kg	
Shipment Voltage	51.2~52.8V	
Operating Temperature	Charge	0°C ~55°C: standard charging method
	Discharge	-30°C ~55°C
Capacity	≥300Ah	
Cycle Life	≥4000cycles	

Rack/cabinet type battery

Technical Data

Rack/cabinet type battery  
**RACK TYPE BATTERY**

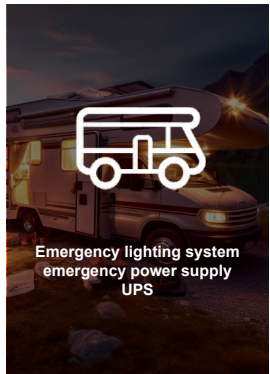
48V/51.2V 100Ah/200Ah/300Ah



- Lithium iron phosphate grade A battery cells
- Parallel support for 15 units
- Compatible with multiple inverter brands
- 6,000 loops @DOD80%
- Bluetooth /WIFI is optional
- BMS 100A/150A/200A are available for selection
- LCD display screen (touch screen optional)



Usage scenarios



MODEL	48100	48200	48300	51.2100	51.2200	51.2300
Standard voltage	48V	48V	48V	51.2V	51.2V	51.2V
Standard capacity	100Ah	200Ah	300Ah	100Ah	200Ah	300Ah
Rated capacity	4.8kWh	9.6kWh	14.4kWh	5.12kWh	10.24kWh	15.36kWh
Working voltage	40.5-54V			43.2-57.6V		
Standard charging current	50A	100A	200A	50A	100A	200A
Standard discharge current	100A	100A	200A	100A	100A	200A
Suggested DOD	80%					
Cycle life	>6000 cycles					
Ingress protection	IP 20					
Discharge operating temperature	-20°C-55°C					
Charging operating temperature	0°C-45°C					
Maximum parallel connection	15					
Communication	RS232/CAN/RS485 (Bluetooth /WIFI is optional)					
Display	LCD Display screen(Touchscreen optional)					
Quality guarantee	5years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
Net weight (kg)	40	75	105	44	84	110
Gross weight (kg)	50	90	121	52	99	129
Dimension (mm)	430*482*178	790*482*178	790*480*200	430*482*178	790*482*178	790*480*200

## Stacked lithium batteries



### Stacked lithium batteries

# STACKED LITHIUM BATTERIES

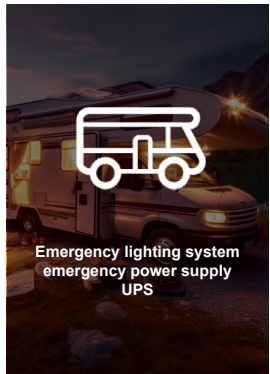
## 51.2V 100Ah



- Lithium iron phosphate grade A battery cells
- Bluetooth and WIFI/touch LCD screen are optional
- 100A BMS is used for charging/discharging
- 6,000 loops @DOD80%
- LCD display screen
- Parallel support for 15 units



## Usage scenarios



## Technical Data

MODEL	51.2V100Ah	51.2V100Ah*2	51.2V100Ah*3	51.2V100Ah*4	51.2V100Ah*5	51.2V100Ah*6
Standard voltage	51.2V					
Single-module capacity	100Ah	100Ah	100Ah	100Ah	100Ah	100Ah
Rated capacity	5.12kWh	5.12kWh*2	5.12kWh*3	5.12kWh*4	5.12kWh*5	5.12kWh*6
Working voltage	43.2-57.6V					
Standard charging current	50A	50A*2	50A*3	50A*4	50A*5	50A*6
Standard discharge current	100A	100A*2	100A*4	100A*4	100A*5	100A*6
Suggested DOD	80%					
Cycle life	>6000 cycles					
Ingress protection	IP 21					
Discharge operating temperature	-20°C-50°C					
Charging operating temperature	0°C-45°C					
Maximum parallel connection	15					
Communication	RS232/CAN/RS485 (Bluetooth /WIFI is optional)					
Display	LCD Display					
Quality guarantee	5years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
Net weight (kg)	45.8+14.2(Base)	45.8+14.2(Base)	45.8+14.2(Base)	45.8+14.2(Base)	45.8+14.2(Base)	45.8+14.2(Base)
Gross weight (kg)	53.2+18.7(Base)	53.2*2+18.7(Base)	53.2*3+18.7(Base)	53.2*4+18.7(Base)	53.2*5+18.7(Base)	53.2*6+18.7(Base)
Dimension (mm)	550*500*(178+105)	550*500*(178*2+105)	550*500*(178*3+105)	550*500*(178*4+105)	550*500*(178*5+105)	550*500*(178*6+105)

Lithium Battery

# LIFEPO4

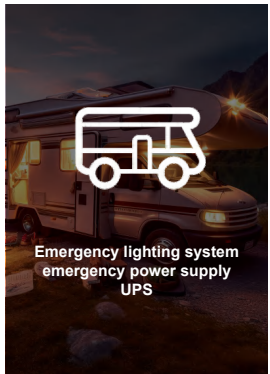
## 12.8V-6Ah~314Ah



- Long-life and environmentally friendly lithium iron phosphate batteries
- Configure high-performance BMS to effectively manage battery cells
- BMS is used for charging/discharging
- 3,000 loops @DOD80%
- It has series/parallel functions
- Small in size and light in weight
- IP67



Usage scenarios



MODEL	12.8V6Ah	12.8V10Ah	12.8V20Ah	12.8V30Ah	12.8V50Ah	12.8V100Ah	12.8V150Ah	12.8V200Ah	12.8V280Ah	12.8V314Ah	
Nominal Voltage(V)	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	
Nominal Capacity(Ah)	6	10	20	30	50	100	150	200	280	314	
Energy(Wh)	76.8	128	256	384	640	1280	1920	2560	3584	4019.2	
Dimension(mm)	150*65*105	150*65*94	182*77*170	183*84*175	223*135*178	260*168*214	336*267*201	367*189*286	453*367*272	453*367*272	
Weight(Kg)	1	1.12	2.58	3.53	5.76	10.8	18.6	21.2	28.5	28.5	
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	
Lifecycles@80% Capacity Remain	3000	3000	3000	3000	4000+	4000+	4000+	4000+	6000+	8000+	
Nominal Charging Current (A)	3	5	10	15	25	50	75	100	140	140	
Max. Charging Current (A)	6	10	25	30	30	100	150	200	250	250	
Charge Cut-off Voltage (V)	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	
Max. Cont. Discharging Current (A)	6	10	25	30	50	100	150	200	250	250	
Peak Discharging Current (A)	12A-5s	23A-1s	65A-1s	36A-30min 60A-5s	260A-0.1s	120A-30min 200A-5s	130A-10s	215A-7s	300A-30min 500A-5s	300A-30min 500A-5s	
Max. Parallel Support	4P	4P	4P	4P	4P	4P	4P	4P	4P	4P	
Max. Series Support	4S	4S	4S	4S	4S	4S	4S	4S	4S	4S	
IP Rating	IP67	IP67	IP67	IP67	IP67	IP67	IP30	IP64	IP64	IP64	
Terminal Type	-	-	M5	M5	M6	M8	M8	M8	M10	M10	
Charge Temperature	0-55°C	0-55°C	0-55°C	0-55°C	0-55°C	0-55°C	0-55°C	0-55°C	0-55°C	0-55°C	
Discharge Temperature	-20-55°C	-20-55°C	-20-55°C	-20-55°C	-20-55°C	-20-55°C	-20-55°C	-20-55°C	-20-55°C	-20-55°C	
Storage Temperature	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)
UN38.3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
MSDS	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
CE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
UL	-	-	-	-	-	UL 1973	-	-	-	UL 1973	

Lithium Battery

# LIFEPO4

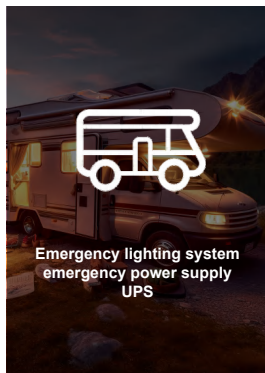
25.6/51.2V-50Ah~200Ah



- Long-life and environmentally friendly lithium iron phosphate batteries
- Configure high-performance BMS to effectively manage battery cells
- BMS is used for charging/discharging
- 4000+ loops @DOD80%
- It has series/parallel functions
- Small in size and light in weight
- IP64



Usage scenarios

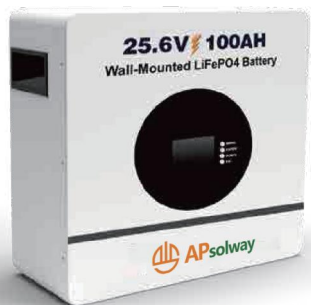


MODEL	25.6V50Ah	25.6V100Ah	25.6V200Ah	51.2V100Ah	51.2V100Ah	51.2V105Ah	51.2V150Ah	
Nominal Voltage(V)	25.6	25.6	25.6	51.2	51.2	51.2	51.2	
Nominal Capacity(Ah)	50	100	200	100	100	105	150	
Energy(Wh)	1280	2560	5120	5120	5120	5376	7680	
Dimension(mm)	260*168*215	384*194*254	520*268*219	518*267*218	482*336*274	482*335*254	742*342*255	
Weight(Kg)	11	20.3	40	37.6	49	47.2	80	
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	
Lifecycles@80% Capacity Remain	4000+	4000+	4000+	4000+	4000+	4000+	4000+	
Nominal Charging Current (A)	25	50	100	50	50	50	75	
Max. Charging Current (A)	50	100	200	200	200	200	150	
Charge Cut-off Voltage (V)	29.2	29.2	29.2	58.4	58.4	58.4	58.4	
Max. Cont. Discharging Current (A)	50	100	200	200	200	200	150	
Peak Discharging Current (A)	60A-1s	120A-30min 200A-5s	210A-1s	200A-25s	280A-60s	200A-25s	280A-60s	
Max. Parallel Support	4P	4P	4P	4P	4P	4P	4P	
Max. Series Support	2S	2S	2S	-	-	-	-	
IP Rating	IP64	IP64	IP64	IP64	IP64	IP64	IP64	
Terminal Type	M8	M8	M8	M8	M8	M8	M8	
Charge Temperature	0-55°C	0-55°C	0-55°C	0-55°C	0-55°C	0-55°C	0-55°C	
Discharge Temperature	-20-55°C	-20-55°C	-20-55°C	-20-55°C	-20-55°C	-20-55°C	-20-55°C	
Storage Temperature	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)	-20-65°C (1WK) -20-40°C (1Mon.) -20-25°C (2Year)
UN38.3	Y	Y	Y	Y	Y	Y	Y	
MSDS	Y	Y	Y	Y	Y	Y	Y	
CE	Y	Y	Y	Y	Y	Y	Y	
UL	-	-	-	-	UL2271	-	-	

## Wall-Mounted LiFePo4 Battery

# LiFePo4 BATTERY

25.6V 100Ah



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Multi-Brand Compatibility
- Capacity Expansion
- Smart Control



### Usage scenarios



MODEL	25.6V 100AH
Nominal Voltage	25.6V
Nominal Capacity	100Ah
Nominal Energy	2560Wh
Battery Type	LFP
Cycle Life	6000(80%DOD,0.5C,25°C)
Maximum Number of Units in Parallel	15 units
Charge Cut-off Voltage	29.2V
Discharge Cut-off Voltage	21.6V
Standard Charge Current	50A
Maximum Charge Current	100A
Standard Discharge Current	50A
Maximum Discharge Current	100A
Dimensions	405*380*193mm
Weight	31.5kg
Communication	CAN/RS485/RS232
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60°C
Cooling Method	Natural Cooling
Protection	Built-in Smart BMS
IP Rating	IP30
Warranty	5 Years
Certification	MSDS, UN38.3, CE-EMC, IEC62619

## Wall-Mounted LiFePo4 Battery



### Wall-Mounted LiFePo4 Battery

# LiFePo4 BATTERY

51.2V 100Ah



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Multi-Brand Compatibility
- Capacity Expansion
- Smart Control



## Usage scenarios



## Technical Data

MODEL	51.2V 100AH
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Nominal Energy	5120Wh
Battery Type	LFP
Cycle Life	6000(80%DOD,0.5C,25°C)
Maximum Number of Units in Parallel	15 units
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	43.2V
Standard Charge Current	50A
Maximum Charge Current	100A
Standard Discharge Current	50A
Maximum Discharge Current	100A
Dimensions	580*450*216.5mm
Weight	53kg
Communication	CAN/RS485/RS232
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60°C
Cooling Method	Natural Cooling
Protection	Built-in Smart BMS
IP Rating	IP30
Warranty	5 Years
Certification	MSDS, UN38.3, CE-EMC, IEC62619

LiFePo4 Battery

Technical Data

LiFePo4 Battery  
**LiFePo4 BATTERY**

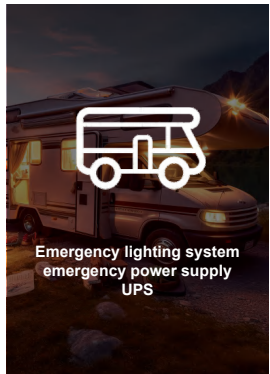
51.2V 200Ah



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Multi-Brand Compatibility
- Capacity Expansion
- Smart Control



Usage scenarios



MODEL	51.2V 200AH
Nominal Voltage	51.2V
Nominal Capacity	200Ah
Nominal Energy	10240Wh
Battery Type	LFP
Cycle Life	6000(80%DOD,0.5C,25°C)
Maximum Number of Units in Parallel	15 units
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	43.2V
Standard Charge Current	100A
Maximum Charge Current	200A
Standard Discharge Current	100A
Maximum Discharge Current	200A
Dimensions	630*470*291mm
Weight	97kg
Communication	CAN/RS485/RS232
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60°C
Cooling Method	Natural Cooling
Protection	Built-in Smart BMS
IP Rating	IP30
Warranty	5 Years
Certification	MSDS, UN38.3, CE-EMC, IEC62619

LiFePo4 Battery

# LiFePo4 BATTERY

25.6V 280Ah



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Multi-Brand Compatibility
- Capacity Expansion
- Smart Control



Usage scenarios



MODEL	25.6V 280AH
Nominal Voltage	25.6V
Nominal Capacity	280Ah
Nominal Energy	7168Wh
Battery Type	LFP
Cycle Life	6000(80%DOD,0.5C,25°C)
Maximum Number of Units in Parallel	15 units
Charge Cut-off Voltage	29.2V
Discharge Cut-off Voltage	21.6V
Standard Charge Current	100A
Maximum Charge Current	200A
Standard Discharge Current	100A
Maximum Discharge Current	200A
Dimensions	483*282*625mm
Weight	73kg
Communication	CAN/RS485/RS232
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60°C
Cooling Method	Natural Cooling
Protection	Built-in Smart BMS
IP Rating	IP30
Warranty	5 Years
Certification	MSDS, UN38.3, CE-EMC, IEC62619

LiFePo4 Battery

# LiFePo4 BATTERY

51.2V 280/314Ah



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Multi-Brand Compatibility
- Capacity Expansion
- Smart Control



Usage scenarios



MODEL	51.2V 280AH	51.2V 314AH
Nominal Voltage	51.2V	51.2V
Nominal Capacity	280Ah	314Ah
Nominal Energy	14336Wh	16077Wh
Battery Type	LFP	LFP
Cycle Life	6000(80%DOD,0.5C,25°C)	8000(80%DOD,0.5C,25°C)
Maximum Number of Units in Parallel	15 units	
Charge Cut-off Voltage	58.4V	
Discharge Cut-off Voltage	43.2V	
Standard Charge Current	100A	
Maximum Charge Current	200A	
Standard Discharge Current	100A	
Maximum Discharge Current	200A	
Dimensions	807*520*252mm	
Weight	130kg	
Communication	CAN/RS485/RS232	
Charging Temperature Range	0°C-55°C	
Discharging Temperature Range	-20°C-60°C	
Cooling Method	Natural Cooling	
Protection	Built-in Smart BMS	
IP Rating	IP30	
Warranty	5 Years	
Certification	MSDS, UN38.3, CE-EMC, IEC62619	

LiFePo4 Battery  
**LiFePo4 BATTERY**

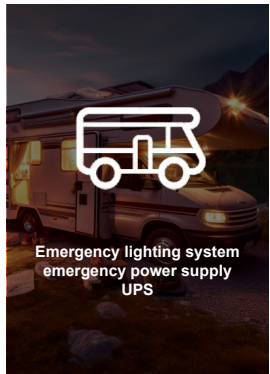
51.2V 314Ah



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Multi-Brand Compatibility
- Capacity Expansion
- Smart Control
- IP65 Protection



Usage scenarios



MODEL	51.2V 314AH
Nominal Voltage	51.2V
Nominal Capacity	314Ah
Nominal Energy	16077Wh
Battery Type	LFP
Cycle Life	8000(80%DOD,0.5C,25°C)
Maximum Number of Units in Parallel	15 units
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	43.2V
Standard Charge Current	100A
Maximum Charge Current	200A
Standard Discharge Current	100A
Maximum Discharge Current	200A
Dimensions	807*520*252mm
Weight	130kg
Communication	CAN/RS485/RS232
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60°C
Cooling Method	Natural Cooling
Protection	Built-in Smart BMS
IP Rating	IP65
Warranty	10 Years
Certification	MSDS, UN38.3, CE-EMC, IEC62619

## LiFePo4 Battery

LiFePo4 Battery

# LiFePo4 BATTERY

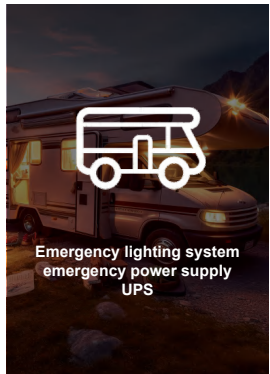
51.2V 100AH-A/B



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Multi-Brand Compatibility
- Capacity Expansion
- Smart Control



## Usage scenarios



## Technical Data

MODEL	51.2V 100AH-A/B	
Nominal Voltage	51.2V	
Nominal Capacity	100Ah	
Nominal Energy	5120Wh	
Battery Type	LFP	
Cycle Life	6000(80%DOD,0.5C,25°C)	
Maximum Number of Units in Parallel	15 units	
Charge Cut-off Voltage	58.4V	
Discharge Cut-off Voltage	43.2V	
Standard Charge Current	50A	
Maximum Charge Current	100A	
Standard Discharge Current	50A	
Maximum Discharge Current	100A	
Dimensions	525*435*180mm(A)	551.5*483*133mm(B)
Weight	46kg(A)	43kg(B)
Communication	CAN/RS485/RS232	
Charging Temperature Range	0°C-55°C	
Discharging Temperature Range	-20°C-60°C	
Cooling Method	Natural Cooling	
Protection	Built-in Smart BMS	
IP Rating	IP30	
Warranty	5 Years	
Certification	MSDS, UN38.3, CE-EMC, IEC62619,UL9540A,UL1973	



LiFePo4 Battery  
**LiFePo4 BATTERY**

51.2V 40.96kWh



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Capacity Expansion
- Smart Control
- The integrated inverter and controller design



Usage scenarios



INVERTER OUTPUT	
Max. Number of Units in Parallel	1-8 units
Nominal Voltage	51.2V
Energy	5.12-40.96kWh
Max. Stackable Energy	40.96kWh
Battery Module Dimension	600 x 450 x 445mm (1 inverter plus 1 module)
INVERTER OUTPUT	
Rated Output Power	5000W
Rated Output Voltage	230Vac(L/N/PE Single Phase)
Allowable parallel number	1-6 single phase or three phases
Number of MPPT Channels	1
Max.Input Power	5500W
Max.Input Current	22A
Max.Open-Circuit Voltage	550Vdc
MPPT Operating Voltage Range	120~450Vdc
Input Voltage Range	90~280Vac
Bypass Overload Current	40A
MPPT Tracking Efficiency	99.9%
Battery Inverter Maximum Efficiency	92%
IP Rating	IP20(Use indoors)
Environment Temperature	-10-55°C
Noise	≤60dB
Cool	Forced cooling, adjustable wind speed
COMMUNICATION	
Internal Interface	RS485/USB/Dry Contact
BATTERY(1 MODULE)	
Battery Type	LFP
Nominal Battery Voltage	51.2Vdc
Voltage Range	43.2~58.4Vdc
Max.Photovoltaic Charging Current	100A
Max.Mains/Generator Charging Current	60A
Max.Hybrid Charging Current	100A
Battery Module Weight	50kg (1 module)
CERTIFICATION	
Safety Compliance	CE(ICE62109-1/2)
EMC	EN61000
RoHS	Included

LiFePo4 Battery

# LiFePo4 BATTERY

409.6/614.4V 100Ah



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Multi-Brand Compatibility
- Capacity Expansion
- Smart Control



Usage scenarios



MODEL	409.6V 100AH-A (8) 409.6V 100AH-B (8)	614.4V 100AH-A (12) 614.4V 100AH-B (12)
Nominal Voltage	409.6V	614.4V
Nominal Capacity	100Ah	100Ah
Nominal Energy	40.96KWh	61.44KWh
Battery Type	LFP	
Cycle Life	6000(80%DOD,0.5C,25°C)	
Maximum Number of Units in Parallel	8 units	12 units
Charge Cut-off Voltage	467.2V	700.8V
Discharge Cut-off Voltage	345.6V	518.4V
Standard Charge Current	50A	
Maximum Charge Current	100A	
Standard Discharge Current	50A	
Maximum Discharge Current	100A	
Dimensions	420*550*1725mm(A) 530*550*1650mm(B)	420*550*2465mm(A) 530*550*2000mm(B)
Weight	400kg(A) 420kg(A)	585kg(A) 600kg(A)
Communication	CAN/RS485/RS232	
Charging Temperature Range	0°C-55°C	
Discharging Temperature Range	-20°C-60°C	
Cooling Method	Natural Cooling	
Protection	Built-in Smart BMS	
IP Rating	IP30	
Warranty	5 Years	
Certification	MSDS, UN38.3, CE-EMC, IEC62619	

LiFePo4 Battery

# LiFePo4 BATTERY

307.2V 205AH



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Capacity Expansion
- Smart Control



Usage scenarios



MODEL	307.2V 205AH
Nominal Voltage	307.2V
Nominal Capacity	205Ah
Nominal Energy	62.97Wh
Battery Type	LFP
Cycle Life	6000(80%DOD,0.5C,25°C)
Maximum Number of Units in Parallel	6 units
Charge Cut-off Voltage	350.4V
Discharge Cut-off Voltage	259.2V
Standard Charge Current	100A
Maximum Charge Current	200A
Standard Discharge Current	100A
Maximum Discharge Current	200A
Dimensions	650*700*1400mm
Weight	580kg
Communication	CAN/RS485
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60°C
Cooling Method	Natural Cooling
Protection	Built-in Smart BMS
IP Rating	IP30
Warranty	5 Years
Certification	MSDS, UN38.3, CE-EMC, IEC62619

LiFePo4 Battery

# LiFePo4 BATTERY

563.2V 314Ah



- BMS Protection
- High Capacity and Lightweight
- Wide Range of Applications
- Long Lifespan
- Easy Installation
- Multi-Brand Compatibility
- Capacity Expansion
- Smart Control



Usage scenarios



MODEL	563.2V 314AH
Nominal Voltage	563.2V
Nominal Capacity	314Ah
Nominal Energy	176.84KWh
Battery Type	LFP
Cycle Life	8000(80%DOD,0.5C,25°C)
Maximum Number of Units in Parallel	11 units
Charge Cut-off Voltage	642.4V
Discharge Cut-off Voltage	475.2V
Standard Charge Current	100A
Maximum Charge Current	200A
Standard Discharge Current	100A
Maximum Discharge Current	200A
Dimensions	1060*800*1750mm
Weight	1500kg
Communication	CAN/RS485
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60°C
Cooling Method	Fan Cooling
Protection	Built-in Smart BMS
IP Rating	IP30
Warranty	5 Years
Certification	MSDS, UN38.3, CE-EMC, IEC62619



## LiFePo4 Battery

# LiFePo4 BATTERY

50KW/112KWh



- IP55 Protection
- Supporting PV access, transitioning from on-grid to off-grid, and encompassing the entire spectrum of photovoltaic systems, energy storage, and generators
- Wide range of applicatious
- More Durability
- Minimal O&M
- Smart Control



### Usage scenarios



### Technical Data

MODEL	50KW/112KWH
<b>BATTERY</b>	
Battery Type	LFP
Battery Capacity	314Ah
PACK Configuration	IP16S
PACK Quantity	7PACK/ Cluster
Rated Current	150A
Max. Current	200A
Voltage Range	302V-408V
Nominal Energy	112.53kWh
<b>AC(ON-GRID)</b>	
Rated Power	50kW
AC Maximum Current	83.4A
AC Rated Voltage	230Vac/400Vac
Wiring Method	3/N/PE
Frequency	50Hz/60Hz
Power Factor	0.8 leading ~ 0.8 lagging
THDi	<3%
<b>AC(OFF-GRID)</b>	
Rated Power	50kW
AC Rated Voltage	230Vac/400Vac
AC Maximum Current	75.8A
Wiring Method	3/N/PE
Frequency	50Hz/60Hz
Power Factor	100%
THDv	<3%
<b>PHOTOVOLTAIC</b>	
Max. PV Input Power	80kW
Max. PV Input Voltage	1100V
Start-up Voltage	200V
MPPT Voltage Range	180V~1000V
Number of MPP Trackers	4
Number of Strings per MPPT	2 / 1
Max. PV Input Current	40A/20A
<b>SYSTEM</b>	
Weight	1500kg
Dimension(W*D*H)	1100*1200*2350mm
Max. Efficiency	>88%
Air Conditioner Power	3kW(Cooling)
Temperature	-20°C ~ 50°C(Derating above 40°C)
Humidity	0~ 95% RH(Non-condensing)
Ingress Protection	IP55
Anti-corrosion Grade	C3
Cooling Method	Air Cooling
Noise	<=75dB
Altitude	3000m(Derating above 2000m)
Display	Touch Screen
Fire Protection	Aerosol(Optional Perfluorohexanone)
Communication	CAN/RS485
Certification	MSDS, UN38.3, CE-EMC, IEC62619