

For the powerful digital world



Residential | LITHIUM BATTERY ALBUM



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Lustre Power Group Limited.



COMPANY PROFILE

"Lustre Power Group Limited" was founded in 2013 and has accumulated more than ten years of experience in the fields of solar energy and energy storage. We are a leading manufacturer that integrates research and development, design, and production of inverter power supplies, lithium batteries, and solar energy storage systems. We have two factories and multiple subsidiaries, mainly producing **lithium batteries**, inverters, energy storage systems, solar controllers, portable power station, and battery chargers. We have achieved a monthly production capacity of over 3000 lithium batteries and over 20000 inverters.

At present, the company has passed EU CE and ROHS certification, US ETL and FCC certification, Japan PSE certification, and more than 10 models of lithium batteries have obtained UN38.3 and MSDS certification. **LustreWatt** is your trusted brand, and we hope to work closely together with you in 2025 to create a green future!

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01





LITHIUM BATTERY

Energy Storage Lithium Battery

Provide users with a one-stop photovoltaic energy storage solution

LPW-A Power Wall Lithium Energy Storage Battery

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

- 
BMS protection
- 
Wall hanging design
- 
Home energy storage
- 
Intelligent communication



Product Introduction

The LPW-A Power Wall lithium energy storage battery, uses high cycle lithium iron phosphate cells, which are more convenient and aesthetically pleasing to install. The high-performance BMS protection and management battery system has a wider range of use and longer lifespan than traditional batteries. Using our exclusive color screen design, you can check the battery's operation status quickly and conveniently.

Product features

- 1 Grade A LiFePO4 cell
- 2 Parallel support for 15PCS
- 3 Compatible with multiple inverter brands
- 4 6000 cycles @ DOD80%
- 5 Bluetooth/WIFI optional
- 6 BMS 100A/150A/200A optional
- 7 LCD color display screen

Application Area





- ✘ Energy storage system, control system, alarm system, power system, database
- ✘ Emergency lighting system, emergency power supply, UPS
- ✘ Telecommunications, communication, and fire protection

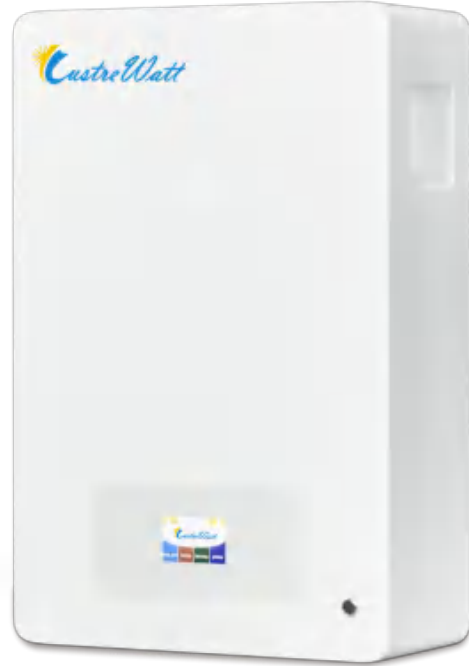
Product Parameters

Model	LPW-A-48100	LPW-A-48200	LPW-A-48300	LPW-A-51.2100	LPW-A-51.2200	LPW-A-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	150A	50A	100A	150A
Standard discharging current	100A	100A	200A	100A	100A	200A
Suggested DOD	80%					
Cycle life	>6000 cycles					
IP Rating	IP21(IP65 optional)					
Discharge operating temperature	-20°C-60°C					
Charging operating temperature	0°C-45°C					
Maximum parallel	15PCS					
Communication	RS232/CAN/RS485 (WIFI/BT optional)					
Display	LCD touch screen					
Warranty	5 Years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
NW. (kg)	47.2	87	115	48	91	120
GW.(kg)	51.4	105	133	55	109	138
Product size (mm)	545*460*200	790*530*200	790*530*240	545*460*200	790*530*200	790*530*240
Package size (mm)	625*540*300	870*610*410	850*590*300	625*540*300	870*610*410	850*590*300

LPW-B Power Wall Lithium Energy Storage Battery

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

- 
 BMS protection
- 
 Wall hanging design
- 
 Home energy storage
- 
 Intelligent communication



Product Introduction

The LPW-B Power wall lithium energy storage battery, uses high cycle lithium iron phosphate cells, which are more convenient and aesthetically pleasing to install. The high-performance BMS protection and management battery system has a wider range of use and longer lifespan than traditional batteries. Using a touch screen design, it is quick and convenient to view battery operation data and modify communication protocols with different inverters.

Product features

- 1 Grade A LiFePO4 cell 2 Parallel support for 15PCS 3 Compatible with multiple inverter brands
- 4 6000 cycles @ DOD80% 5 Bluetooth/WIFI optional 6 BMS 100A/150A/200A optional
- 7 LCD touch screen

Application Area





- ✘ Energy storage system, control system, alarm system, power system, database
- ✘ Emergency lighting system, emergency power supply, UPS
- ✘ Telecommunications, communication, and fire protection

Product Parameters

Model	LPW-B-48100	LPW-B-48200	LPW-B-48300	LPW-B-51.2100	LPW-B-51.2200	LPW-B-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	150A	50A	100A	150A
Standard discharging current	100A	100A	200A	100A	100A	200A
Suggested DOD	80%					
Cycle life	>6000 cycles					
IP Rating	IP21(IP65 optional)					
Discharge operating temperature	-20°C-60°C					
Charging operating temperature	0°C-45°C					
Maximum parallel	15PCS					
Communication	RS232/CAN/RS485 (WIFI/BT optional)					
Display	LCD touch screen					
Warranty	5 Years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
NW. (kg)	47.2	87	115	48	91	120
GW.(kg)	51.4	105	133	55	109	138
Product size (mm)	545*460*200	790*530*200	790*530*240	545*460*200	790*530*200	790*530*240
Package size (mm)	625*540*300	870*610*410	850*590*300	625*540*300	870*610*410	850*590*300

LPV Vertical LFP Energy Storage Battery

51.2V 200Ah/300Ah/342Ah

- 
 BMS protection
- 
 Pulley design
- 
 Home energy storage
- 
 Intelligent communication



Product Introduction

The LPV vertical energy storage lithium battery, a long-lived lithium iron phosphate battery, vertical energy storage battery can move freely and conveniently, high-performance BMS protection and management battery system, with a wider range of use and longer lifespan than traditional batteries.

Product features

- 1 Grade A LiFePO4 cell
- 2 Parallel support for 15PCS
- 3 Compatible with multiple inverter brands
- 4 6000 cycles @ DOD80%
- 5 Bluetooth/WIFI optional
- 6 LCD color screen/LCD touch screen (optional)
- 7 150A/200A optional

Application Area


- ✧ Energy storage system, control system, alarm system, power system, database
- ✧ Emergency lighting system, emergency power supply, UPS
- ✧ Telecommunications, communication, and fire protection

Product Parameters

Model	LPV-51.2200	LPV-51.2300	LPV-51.2342
Standard voltage	51.2V	51.2V	51.2V
Standard capacity	200Ah	300Ah	342Ah
Rated capacity	10.24kWh	15.36kWh	17.5kWh
Working voltage	43.2-57.6V		
Standard charging current	100A		
Standard discharging current	100A	200A	200A
Suggested DOD	80%		
Cycle life	>6000 cycles		
IP Rating	IP21(IP65 optional)		
Discharge operating temperature	-20°C-50°C		
Charging operating temperature	0°C-45°C		
Maximum parallel	15PCS		
Communication	RS232/CAN/RS485 (WIFI/BT optional)		
Display	LCD color screen/LCD touch screen (optional)		
Warranty	5 Years		
Certificate	UN38.3/MSDS/CE/ROHS/FCC		
NW. (kg)	115	120.8	130
GW.(kg)	130	139.6	140
Product size (mm)	790*530*260	820*550*270	820*550*270
Package size(mm)	870*610*470	880*635*460	880*635*460

LBM-I Low Voltage Stacked Lithium Energy Storage Battery

Inverter output: 5.5kW/8kW/10kW
 Number of battery modules: 51.2V 100Ah

- 
BMS protection
- 
Stacked design
- 
Home energy storage
- 
Intelligent communication



(Ultra thin version)

(Regular style)

Product Introduction

The LBM-I Stacked lithium-ion energy storage system uses high cycle lithium iron phosphate cells, and a high-performance BMS protection and management battery system. A single group can be stacked up to 7 layers (including the inverter layer), and multiple groups can be combined into up to 15 battery modules in parallel. The capacity can be freely combined, and when paired with a 5.5KW-10KW off grid photovoltaic inverter system, it can meet various electricity needs of households and industries.

Product features

- 1 Grade A LiFePO4 cell
- 2 Bluetooth and WIFI/touch LCD screen optional
- 3 100A BMS for charging/discharging
- 4 6000 cycles @ DOD80%
- 5 LCD display screen
- 6 Parallel support for 15PCS

Application Area

- ✘ Energy storage system, control system, alarm system, power system, database
- ✘ Emergency lighting system, emergency power supply, UPS
- ✘ Telecommunications, communication, and fire protection

Battery parameters

Model	LBM-I-51.2100	LBM-I-51.2100*2	LBM-I-51.2100*3	LBM-I-51.2100*4	LBM-I-51.2100*5	LBM-I-51.2100*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 discharging current	100A	100A*2	100A*4	100A*4	100A*5	100A*6
Suggested DOD	80%					
Cycle life	>6000 cycles					
IP Rating	IP21					
Discharge operating temperature	-20°C-50°C					
Charging operating temperature	0°C-45°C					
Max parallel	15PCS					
Communication	RS232/CAN/RS485 (WIFI/BT optional)					
Display	LCD display screen					
Warranty	5 Years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
NW. (kg)	45.8+14.2(base)	45.8*2+14.2(base)	45.8*3+14.2(base)	45.8*4+14.2(base)	45.8*5+14.2(base)	45.8*6+14.2(base)
GW.(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)
Product size (mm)	550*500*(178+105) 550*210*530 (Ultra thin version)	550*500*(178*2+105) 550*210*1000 (Ultra thin version)	550*500*(178*3+105) 550*210*1470 (Ultra thin version)	550*500*(178*4+105)	550*500*(178*5+105)	550*500*(178*6+105)
Package size(mm)	650*600*290 630*580*252(base) 545*510*300 (Ultra thin version)	650*600*290*2 630*580*252(base) 545*510*300*2 (Ultra thin version)	650*600*290*3 630*580*252(base) 545*510*300*3 (Ultra thin version)	650*600*290*4 630*580*252(base)	650*600*290*5 630*580*252(base)	650*600*290*6 630*580*252(base)

Inverter parameters

Rated power	5.5kW	8kW	10kW
AC input			
Voltage	230VAC		
Optional voltage range	170-280VAC (personal computer): 90-280VAC (household appliances)		
Frequency range	50Hz/60Hz (adaptive)		
AC output			
Rated voltage	230VAC±5%		
Peak power	11000VA	16000VA	20000VA
Efficiency	max 93.5%	max 98%	max 98%
Transfer time	10ms (personal computer) 20ms (household appliances)		
Waveform	Pure sine wave		
Battery			
Battery voltage	48VDC		
Floating charging voltage	54VDC (Settable)		
Overcharge protection	57.6VDC (Settable)		
Solar charging& AC charging			
PV maximum open circuit voltage	500VDC		
PV maximum power	5500W	11000W	11000W
MPPT range @ working voltage	120-500VDC	90-500VDC	90-500VDC
Maximum solar charging current	100A	150A	150A
Maximum AC charging current	60A	120A	150A
Maximum charging current	100A	150A	150A
Basic parameters			
Working temperature	-10°C - 50°C		
Working humidity	20% -95% relative temperature (non condensing)		
Storage temperature	-15°C - 60°C		
NW. (kg)	22.6	26.2	27
GW.(kg)	36	39	40
Product size (mm)	550*500*178(Regular style) 550*210*470(Ultra thin style)	550*500*178(Regular style) 550*210*470(Ultra thin style)	550*500*178(Regular style) 550*210*470(Ultra thin style)
Package size(mm)	650*600*290	650*600*290	650*600*290



LBS- Rack/Cabinet Mounted Lithium Energy Storage Battery

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

- 
BMS protection
- 
Free combination
- 
Home energy storage
- 
Intelligent communication



Product Introduction

The LBS- Rack/Cabinet mounted lithium energy storage battery, uses high cycle lithium iron phosphate cells, high-performance BMS protection and management battery system, and can be combined into up to 15 battery modules in parallel. The capacity can be freely combined to meet various needs of households and industries. into up to 15 battery modules in parallel.

Product features

- 1 Grade A LiFePO4 cell
- 2 Parallel support for 15PCS
- 3 Compatible with multiple inverter brands
- 4 6000 cycles @ DOD80%
- 5 Bluetooth/WIFI optional
- 6 LCD display screen (touch screen optional)
- 7 BMS 100A/150A/200A optional

Application Area

- ✘ Energy storage system, control system, alarm system, power system, database
- ✘ Emergency lighting system, emergency power supply, UPS
- ✘ Telecommunications, communication, and fire protection

Product Parameters

Model	LBS-48100	LBS-48200	LBS-48300	LBS-51.2100	LBS-51.2200	LBS-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	150A	50A	100A	150A
Standard discharging current	100A	100A	200A	100A	100A	200A
Suggested DOD	80%					
Cycle life	>6000 cycles					
IP Rating	IP20					
Discharge operating temperature	-20°C-50°C					
Charging operating temperature	0°C-45°C					
Maximum parallel	15PCS					
Communication	RS232/CAN/RS485 (WIFI/BT optional)					
Display	LCD display screen (touch screen optional)					
Warranty	5 Years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
NW. (kg)	40	75	105	44	84	110
GW.(kg)	50	90	121	52	99	129
Product size (mm)	430*482*178	790*482*178	790*480*200	430*482*178	790*482*178	790*480*200
Package size(mm)	510*530*300	870*610*410	850*540*440	510*530*300	870*610*410	850*540*440

LBM-H High Voltage Stacked Lithium Energy Storage Battery

Number of battery modules: 102.4V 50Ah

- 
BMS protection
- 
Stacked design
- 
Home energy storage
- 
Intelligent communication



(Ultra thin version)

(Regular style)

Product Introduction

The LBM-H High voltages stacked lithium energy storage battery, uses high cycle lithium iron phosphate cells, a high-performance BMS protection and management battery system, and can stack up to 7 modules per group (including the BMS main control layer). Multiple groups can be freely combined to achieve 2-8 battery modules in series, meeting various needs of households and industries.

Product features

- 1 Grade A LiFePO4 cell
- 2 Supports up to 8 modules in series
- 3 High voltage BMS control system
- 4 6000 cycles @ DOD80%
- 5 Convenient to move and freely combine

Application Area

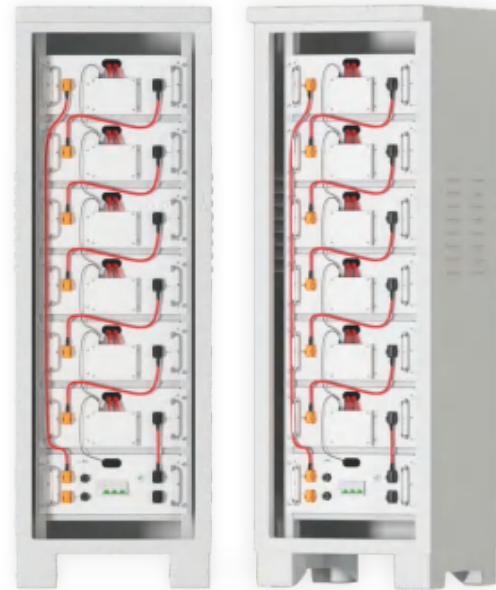
- ※ Energy storage system, control system, alarm system, power system, database
- ※ Emergency lighting system, emergency power supply, UPS
- ※ Telecommunications, communication, and fire protection

Product Parameters

Model	LBM-H-10.24kWh	LBM-H-15.36kWh	LBM-H-20.48kWh	LBM-H-25.6kWh	LBM-H-30.72kWh
Standard voltage	102.4V				
Number of modules	1+2/PCS	1+3/PCS	1+4/PCS	1+5/PCS	1+6/PCS
Single module capacity	50Ah	50Ah	50Ah	50Ah	50Ah
Rated capacity	5.12kWh*2	5.12kWh*3	5.12kWh*4	5.12kWh*5	5.12kWh*6
Working voltage	172.8-230.4V	259.2-348.8V	345.6-464V	432-579.2V	518.4-694.4V
Standard charging current	25A/module				
Standard discharging current	50A/module				
Suggested DOD	80%				
Cycle life	>6000 cycles				
IP Rating	IP21				
Discharge operating temperature	-20°C-60°C				
Charging operating temperature	0°C-45°C				
Maximum series connection	8PCS				
Communication	CAN/RS485(WiFi/Bluetooth optional)				
Warranty	5 Years				
Certificate	UN38.3/MSDS/CE/ROHS/FCC				
NW. (kg)	54*2+14.2(base) 106 (Ultra thin version)	54*3+14.2(base)	54*4+14.2(base)	54*5+14.2(base)	54*6+14.2(base)
GW.(kg)	64*2+18.7(base) 124 (Ultra thin version)	64*3+18.7(base)	64*4+18.7(base)	64*5+18.7(base)	64*6+18.7(base)
Product size (mm)	550*500*(178*3+105) 550*210*1470 (Ultra thin version)	50*500*(178*4+105)	50*500*(178*5+105)	50*500*(178*6+105)	50*500*(178*7+105)
Package size(mm)	650*600*290*3 630*580*252(base) 545*510*300*3 (Ultra thin version)	650*600*290*4 630*580*252(base)	650*600*290*5 630*580*252(base)	650*600*290*6 630*580*252(base)	650*600*290*7 630*580*252(base)

LBS-H High Voltage Rack Lithium Energy Storage Battery

Number of battery modules: 102.4V 100Ah



BMS protection



Free combination



Home energy storage



Intelligent communication

Product Introduction

The LBS-H High voltage rack lithium energy storage battery, uses high cycle lithium iron phosphate cells, a high-performance BMS protection and management battery system, and can be connected in series with multiple groups to achieve 2-8 battery modules. It has a high-strength sheet metal box protection and can be equipped with air conditioning cooling to increase safety performance and meet various needs of households and industries.

Product features

- 1 Grade A LiFePO4 cell
- 2 Supports up to 8 modules in series
- 3 6000 cycles @ DOD80%
- 4 High voltage BMS control system
- 5 Convenient to move and freely combine

Application Area





- ※ Energy storage system, control system, alarm system, power system, database
- ※ Emergency lighting system, emergency power supply, UPS
- ※ Telecommunications, communication, and fire protection

Product Parameters

Model	LBS-H-20.48kWh	LBS-H-30.72kWh	LBS-H-40.96kWh	LBS-H-51.2kWh	LBS-H-61.44kWh
Standard voltage	102.4V				
Number of modules	1+2/PCS	1+3/PCS	1+4/PCS	1+5/PCS	1+6/PCS
Standard capacity	100Ah	100Ah	100Ah	100Ah	100Ah
Rated capacity	10.24kWh*2	10.24kWh*3	10.24kWh*4	10.24kWh*5	10.24kWh*6
Working voltage	172.8-230.4V	259.2-348.8V	345.6-464V	432-579.2V	604.8-809.6V
Standard charging current	50A/module				
Standard discharging current	100A/module				
Suggested DOD	80%				
Cycle life	>6000 cycles				
IP Rating	IP20				
Discharge operating temperature	-20°C-50°C				
Charging operating temperature	0°C-45°C				
Maximum series connection	8PCS				
Communication	CAN/RS485(WiFi/Bluetooth optional)				
Warranty	5 Years				
Certificate	UN38.3/MSDS/CE/ROHS/FCC				
NW. (kg)	90*2+17(BMS)	90*3+17(BMS)	90*4+17(BMS)	90*5+17(BMS)	90*6+17(BMS)
GW.(kg)	105*2+25(BMS)	105*3+25(BMS)	105*4+25(BMS)	105*5+25(BMS)	105*6+25(BMS)
Product size (mm)	790*480*178*3	790*480*178*4	790*480*178*5	790*480*178*6	790*480*178*7
Package size(mm)	870*610*410*3	870*610*410*4	870*610*410*5	870*610*410*6	870*610*410*7

LBP-Industrial & Commercial High Voltage Storage System

30kW+60kWh/50kW+100kWh/
100kW+215kWh

- 
 BMS protection
- 
 High power output
- 
 Industrial and commercial energy storage
- 
 Intelligent communication



Product function

- 1 This energy storage cabinet is 60-215kWh class system, using fan/air-conditioner/liquid cooled lithium iron phosphate battery pack.
- 2 Two-layer BMS battery management system, a comprehensive digital LCD display, you can easily view and manage on the spot.
- 3 Industrial and commercial enterprises, data centers, industrial parks, commercial buildings, large industries, mobile device energy storage, platform expansion, power quality management, etc.
- 4 This storage cabinet is equipped with a 30/50/100kW hybrid inverter, a multifunctional inverter that combines Inverter, solar charger, grid charger and lithium battery support.
- 5 The energy storage cabinet is designed in the form of outdoor cabinet, with IP54 protection grade and highly integrated design.
- 6 The cabinet is integrated with auxiliary components such as air-conditioner, liquid cooling system, lighting, power distribution, fire fighting, and environmental event disposal as optional.

Application scenario

- ※ Industrial and commercial enterprises, data centers, industrial parks
- ※ Commercial buildings, large industries, mobile device energy storage
- ※ Platform expansion, power quality management, etc

Specification

Model	LBP-30000	LBP-50000	LBP-100000
AC Output Specification			
Rated AC Input/Output Active Power(W)	30000W	50000W	100000W
Peak Power(off grid)	1.5 time of rated power, 10 S		
AC Output Rated Current(A)	45.6A	75.8A	151.6A
Max. AC Current(A)	60A	83.3A	166.6A
Output Frequency and Voltage	50/60Hz:3 L/N/PE 220/380,230/400Vac		
Grid Type	Three Phase		
Total Harmonic Distortion(THD)	<3% (of nominal power)		
PV Input Specification			
Max. PV Input Power(W)	39000W	65000W	
Max. PV Input Voltage (V)	1000V		
MPPT Range(V)	150-850V		300-900V
Start-up Voltage(V)	180V		300V
Full Load MPPT Voltage Range(V)	360-850V	450-850V	500-900V
Rated PV Input Voltage (V)	600V		
PV Input Current(A)	36+36+36	36+36+36+36	50A+50A+50A+50A
Max.PV Isc(A)	55+55+55	55+55+55+55	60A+60A+60A+60A
No. of MPP Trackers	3	4	4
No.of Strings per MPP Tracker	2		1
Battery Specification			
Spec Of Each Module	LFP 102.4V 100AH 10.24kWh	LFP 51.2V 200AH 10.24kWh	LFP 153.6V 280AH 43kWh
Module Number	6	10	5
Battery System Capacity	61.44kWh	102.4kWh	215kWh
Battery Voltage Range	537.6V-691.2V	432V-576V	600V-876V
Basic Parameter			
Overall Dimensions (width *depth * Height)	1170*1031*1635mm	1170*1031*1835mm	1500*1550*2300mm
Weight	900KG	1500KG	2430KG
Cooling Mode	Fan cooling, Air-conditioner cooling and Liquid cooling optional		
Class Of Protection	IP54		