



Battery Energy Storage System

2025



ENÉRVIA
Power

www.enerviapower.com

EP-BAT Series

Battery 5/10kWh



adaptable



Safety



Multiple charging options



Smart BMS



Large capacity and long life



RS485



Features

- High quality and safe lithium battery, BMS intelligent battery management system;
- Long normal service life time, long endurance, more durable;
- Roller/floor-mounted design, easy to install, convenient for daily maintenance;
- Supports intelligent control to view battery status;
- LED/LCD display is easy to operate, user experience is more intuitive;

Applications



Servers



Family



School



base stations



B&B PV Energy Storage



Home PV Energy Storage

Options/Appearance

Optional Solar Inverter with photovoltaic panels.



Product Specifications EP-BAT

ENéRVIA
Power

Model	E P-BAT5k	E P-BAT10k
Battery		
Standard battery voltage	51.2V	
Battery Type	liFePo4	
string	1P16S	
runtime power	5120Wh	10240Wh
Standard discharge current	50A	50A
Max. discharge current	100A	105A
Standard Voltage	51.2VDC	51.2VDC
Max. charging voltage	57.6V	57.6V
Max. charging current	50A	105A
operating voltage	42.4-57.6V	
others		
Protection	Battery under-voltage protection/battery over-voltage protection/overload power protection/inverter transmission short circuit protection/overTemperature protection, etc.	
IP Grade	IP20	
Communication method (optional)	RS485 communication/CAN communication	
Working altitude	≤2500m	
Working humidity	65±20%RH	
Firefighting	Aerosol PACK12g	
Display Type	LCD	
Discharge depth and life	>6000 times (0.5C@25°C)Energy retention rate ≥80%	
Operation Temperature	0~+40°C	
Max of parallel	15PCS	
Warranty	5~10Years	
Dimension		
Product Dimension(L*W*H mm)	440*585*170mm	540*800*170mm
Package size (L*W*H mm)	500*630*240mm	600*860*230mm
N.W.(kg)	50	92
G.W.(kg)	60	102

EP-PLUS Series

High Frequency Hybrid Inverter



Pure sine wave



Safety



LiFePO4



MPPT



settable



Parallel support



Features

- High frequency design, high efficiency, low no-load loss;
- Support solar and 220V mixed for battery charging, intelligent deployment; Stand-alone version supports working without battery;
- Maximum 9 units parallel operation, support single-phase/three-phase output;
- Intelligent LCD settings (operating mode, charge current, charge voltage, AC output voltage/frequency, etc.);
- LED + LCD display is easy to operate, user experience is more intuitive;
- Multiple protection functions (overload, over temperature, short circuit protection, etc.).

Options/Appearance

Customizable appearance



Optional PV panel available

Customizable colors



Configurable parameters



Applications



Family



School



servers



GuestHouse



server room



Roof PV

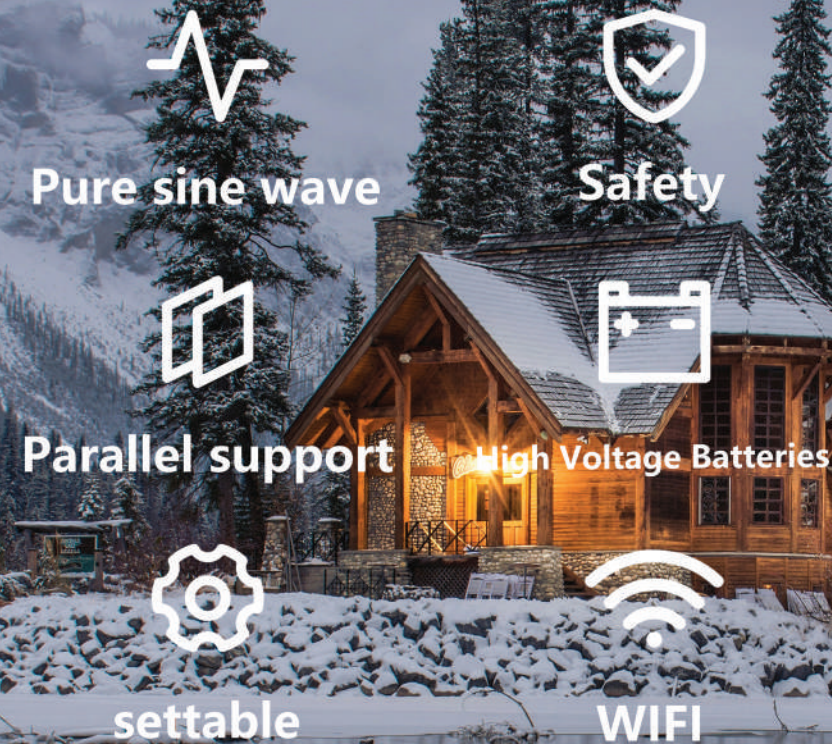
Product Specifications EP-PLUS

ENéRVIA
Power

Model	PLUS-3	PLUS-5	PLUS-8	PLUS-10
Power(output)				
rating	3.6KW	6KW	8KW	12KW
Battery				
Battery Type	LiFePO4			
Maximum Charge Current (PV+AC)	100A	80A		
Maximum PV charging current	100A	80A		
Maximum mains charging current	100A	80A		
Standard battery voltage	24V	48V		
MPPT Solar Controller				
Maximum PV input voltage (Vo c)	500VDC			
Maximum PV input current/power	18A/5000W	18A/6000W	18A/8000W	18A/10KW
MPPT tracking range	40~ 450V	120~ 450V	120~ 450V	120~ 450V
AC input				
Rated Input Voltage	208/220/230/240;L+N+PE	220/230/240;L+N+PE		
Utility input voltage range	90~280±3 （Normal Mode） :170~280±3 （UPS Mode）			
Utility input frequency	50/60Hz			
Alternating current ransmission				
Transmission Waveforms	pure sine wave			
Conversion efficiency (inverter mode)	(Battery mode)92.7%@24VDC 94%@48VDC 94%@48VDC			
Transmission Voltage/Frequency	208/220/230/240V/50/60Hz±0.1%			
Others				
Protection	Battery Undervoltage Protection/Battery Overvoltage Protection/Overload Power Protection/Inverter Output Short Circuit Protection/Over Temperature Protection etc.			
IP Grade	IP21			
Communication method (optional)	RS485 communication, cellphone APP (WIFI monitoring) Option			
Display Way	LCD			
Cooling Method	Intelligent Fan Control			
Operating mode (settable)	Utility power preferred/battery preferred/photovoltaic preferred			
Operation Temperature	-10°C~60°C			
relative humidity	5%~95%, no condensation			
Dimension				
Product Dimension(L*W* Hmm)	435*285*98	510*306*140	525*355*115	525*435*138
Packing Dimension(L*W* Hmm)	570*405*210	570*405*210	615*635*210	680*505*130
N.W.(kg)	5.7	9.7	14	14
G.W.(kg)	7.2	11.2	17	19

EP-HMX Series

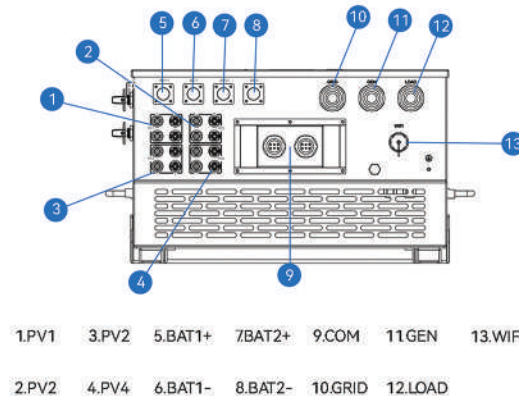
Three-phase hybrid inverter



Features

- Supports AC coupling and retrofitting of existing solar systems.
- Grid-connected and off-grid operation of up to 10 units; supports parallel connection of multiple batteries.
- Directly support diesel generator power supply without external converter.
- Supports 6 time periods for charging/discharging.
- High-quality battery, high efficiency operation.
- Maximum charging/discharging current 50A .
- 100% unbalanced output in each phase.

Product Interfaces



Application



Product Specifications EP-HMX

ENéRVIA
Power

model	EP-HMX12	EP-HMX20	EP-HMX30	EP-HMX50
Battery parameters				
Battery Type	li-ion battery			
Battery voltage range (V)	40-60	160-700		
Maximum battery charging current (A)	240	37	50+50	
Maximum discharge current (A)	240	37	50+50	
Number of battery inputs		1	2	
Lithium Battery Charge Management System	Adaptive BMS			
PV Input				
Maximum DC Input Power (W)	156000	26000	39000	65,000
Maximum DC input voltage (V)	800	1000		
Rated DC Input Voltage (V)	550	600		
Full load DC voltage range (V)	350-650	325-850		450-850
Starting voltage (V)	160	180		
Maximum DC input current for each string (A)	26+13	26+26	36+36+36	36+36+36+36
Maximum DC short-circuit current (A)	34+17	39+39	55+55+55	55+55+55+55
Number of MPPTs	2	2	3	4
Number of MPPT input strings per circuit	2+1	2+2	2+2+2	2+2+2+2
AC Input/Output				
AC Rated TransmissionPower (W)	12000	20000	30000	50000
Maximum AC output active power (W)	13200	22000	33000	55000
Peak power (off-grid)	2x rated power, 10 seconds		1.5x rated power, 10 seconds	
AC input/output Rated current input (A)	18.2/17.4	30.4/29.0	45.5/43.5	75.8/72.5
AC Maximum AC input/output current(A)	20/19.1	33.4/31.9	50/47.9	83.4/79.8
Maximum three-phase unbalanced transmission current (A)	27.3	44.7	60	83.3
Maximum continuous AC current (A)	45	80	118	197
power factor	0.8 (ahead) ~ 0.8 (behind)			
Generator Input/Smart Load/AC Coupling Current(A)	18.2/45/18.2	30.4/80/30.4	45.5/118/45.5	75.8/ 197/ 75.8
Transmission Frequency and Voltage	50/60Hz;220/380Vac,230/400Vac(three-phase)			
Grid type	three-phase, four-wire (4-wire)			
Current harmonic distortion rate (at rated power)	<3%			
efficiency				
Maximum efficiency	97.6%			
European weighted efficiency	97.0%			
MPPT Efficiency	99.9%			
safeguard				
security protection	Islanding protection / DC polarity reversal protection / insulation impedance detection / leakage current monitoring protection / transmission overcurrent protection			
surge protection	DC side secondary lightning protection, ACmeasurement secondary lightning protection			
Overvoltage category	DC side secondary lightning protection, ACmeasurement tertiary lightning protection			
Certifications and standards				
Grid Certification	IEC61727/ EN50549-1			
Safety/EMC Standards	IEC/ EN 61000-6/ 2/ 4, IEC/ EN 62109-1, IEC/ EN 62109-2			
Basic parameters				
Operating Ambient Temperature Range (°C)	-40 ~ +60°C, >45°C Derating			
Cooling method	Intelligent air-cooled			
Noise index (dB)	≤50 dB	<70dB		
BMS communication port	CAN			
monitoring mode	WIFI,APP			
Weight (kg)	37.5KG	82.5KG		
Dimensions (W x H x Thickness mm)	446*576*255	537*833*295.5		
protection class	IP65			
Installation	wall-mounted			

EP-OLP-PRO Series

(Stackable)

All-in-one Energy Storage System



Pure sine wave



Safety



LiFePO4



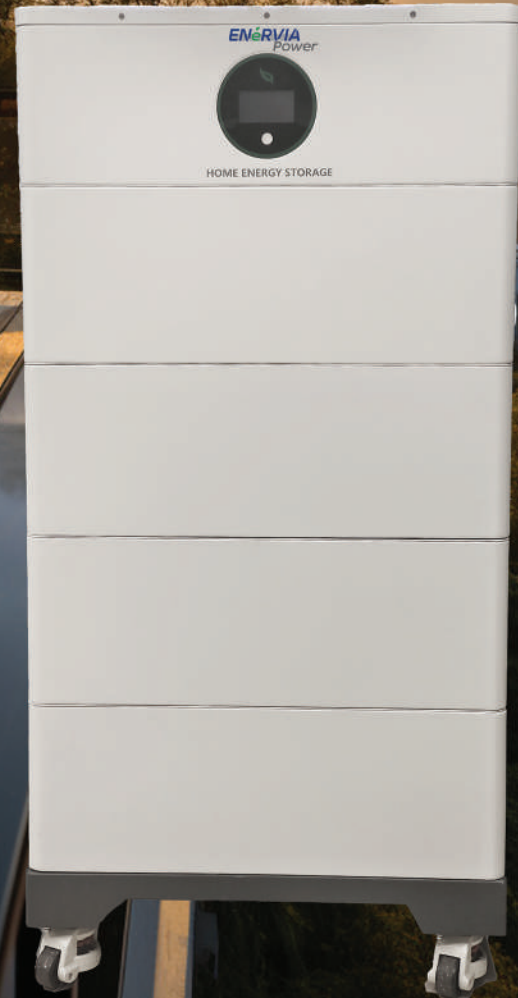
MPPT



settable



Parallel support



Features

- High frequency design, high efficiency, low no-load loss;
- Supports a mix of solar and utility power for battery charging;
- Up to 8 optional batteries can be synchronized with a capacity of up to 40kWh.
- Roller stacking, easy to move in a small area, saving time and labor;
- Smart LCD settings (operating mode, charging current, charging voltage, AC output voltage/frequency, etc.);
- LED+LCD display is easy to operate;
- Multiple protection functions (overload, over temperature, short circuit protection, etc.);

Options/Appearance

Customizable appearance



Optional PV panel available

Customizable colors



Configurable parameters



Green PV System for Hotel

Applications



Severs



Family



School



base stations

Product Specifications EP-OLP-PRO

ENéRVIA
Power

Model	EP-OLP -PRO (different number of packs)							
Power(output)								
rating	5000W							
Battery								
Standard battery voltage	51.2V							
Battery Type	liFePo4							
Number of battery packs	1	2	3	4	5	6	7	8
runtime power	5120Wh	10240Wh	15360Wh	20480Wh	25600Wh	30720Wh	35840Wh	40960Wh
Maximum Charge Current (PV+AC)	100A							
Maximum PV charging current	100A							
Maximum mains charging current	60A							
MPPT Solar Controlle(optional)								
Maximum PV input voltage (Vo c)	600VDC							
Maximum PV input power	7500W							
MPPT tracking range	100V-550VDC							
AC input								
Rated Input Voltage	230VAC							
Utility input voltage range	5000							
Utility input frequency	43Hz~53Hz (50Hz), 53Hz~63Hz (60Hz)							
Alternating current transmission								
Transmission Waveforms	pure sine wave							
Conversion efficiency	93% (peak)							
Transmission Voltage	230VAC							
others								
Protection	Battery Undervoltage Protection/Battery Overvoltage Protection/Overload Power Protection/Inverter Output Short Circuit Protection/Over Temperature Protection etc.							
IP Grade	IP44							
Communication method (optional)	RS485 communication/CAN communication							
Display Type	LCD/LED							
Cooling Method	Intelligent Fan Control							
Cycle life	5500 times							
Operation Temperature	-10°C~ 60°C							
relative humidity	0%~95%, no condensation							
Dimension								
Product Dimension(L*W* Hmm)	750*450*440	750*450* 690	750*450* 940	750*450*1305	750*450* 1583	750*450*1858	750*450*2136	750*450*2414
N.W.(kg)	141	251	361	481	591	701	811	921
G.W.(kg)	151	266	381	506	621	736	851	966

EP-AIO Series

All-in-one Energy Storage System



Features

- Easy and quick installation, integrating solar controller, inverter and battery;
- Compact and elegant design, unique artistic design and convenient output connection port;
- Flexible energy storage capacity, supports 3 charging methods: photovoltaic power generation, diesel-gasoline generator and grid power generation;
- Supports wifi or application monitoring;
- Over-voltage, over-temperature, overload, communication to battery BMS and comprehensive protection.

Applications



Servers



Family



School



base stations

Options/Appearance

Customizable appearance



Optional PV panel available

Customizable colors



Configurable parameters



Home PV Energy Storage



Emergency energy

Product Specifications EP-AIO

ENéRVIA
Power

Model	EP-AIO-1	EP-AIO-2	EP-AIO-3	EP-AIO-4
Power(output)				
rating	10KW			
Battery				
Standard battery voltage	51.2V			
Battery Type	liFePo4			
Number of battery packs	1	2	3	4
runtime power	5kWh	10kWh	15kWh	30kWh
Maximum Charge Current (PV+AC)	100A			
Maximum PV charging current	100A			
Maximum mains charging current	60A			
MPPT Solar Controll(e)(optional)				
Maximum PV input voltage (Vo c)	600VDC			
Maximum PV input power	7500W			
MPPT tracking range	100V-550VDC			
AC input				
Rated Input Voltage	230VAC			
Utility input voltage range	5000			
Utility input frequency	43Hz~53Hz (50Hz), 53Hz~63Hz (60Hz)			
Alternating current transmission				
Transmission Waveforms	pure sine wave			
Conversion efficiency	93% (peak)			
Transmission Voltage	230VAC			
others				
Protection	Battery Undervoltage Protection/Battery Overvoltage Protection/Overload Power Protection/Inverter Output Short Circuit Protection/Over Temperature Protection etc.			
IP Grade	IP44			
Communication method (optional)	RS485 communication/CAN communication			
Display Type	LCD/LED			
Cooling Method	Intelligent Fan Control			
Cycle life	5500 times			
Operation Temperature	-10°C~ 60°C			
relative humidity	0%~95%, no condensation			
Dimension				
Product Dimension(L*W* Hmm)	525*180*900	525x226x928	500*156*836	500*156*836
Package size (L*W* H m m)	535*190*910	580x280x1080	600*250*900	600*250*900
N.W.(kg)	35	65	95	130
G.W.(kg)	45	80	115	155

EP-RES Series

Rack-mounted Energy Storage

Lithium Battery

adaptable



Multiple charging options



Large capacity and long life



Safety



Smart BMS



RS485



Features

- High Space and Deployment Efficiency;
- Long normal service life time, long endurance, more durable;
- Wide Adaptability and Compatibility;
- Supports intelligent control to view battery status;
- LED/LCD display is easy to operate, user experience is more intuitive;

Applications



Servers



Family



School



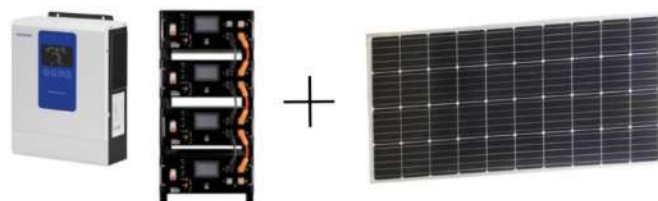
base stations



B&B PV Energy Storage

Options/Appearance

Optional Solar Inverter with photovoltaic panels.



Product Specifications EP-RES

ENéRVIA
Power

Mode	EP-RES-5	EP-RES-10	EP-RES-15
Battery			
Specification	51.2V100Ah	51.2V200Ah	51.2V300Ah
Cell Combination	16S1P	16S1P	16S1P
Battery pack capacity	5.12KWh	10.24kWh	15.36kWh
Standard discharge current	50A	50A	140A
Max. discharge current	100A	100A	140A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	100A	140A
Max. charging voltage	57.6V	57.6V	57.6V
Discharge depth and life	>6000 times (0.5C@25) Energy retention rate ≥80%		
Working humidity	65±20%RH		
Operating temperature	0~+40		
Working altitude	≤2500m		
Firefighting	Aerosol PACK12g		
Cooling method	Natural cooling		
Others			
Installation method	Cabinet/Rack Mount		
IP Grade	IP20		
Max of parallel	15PCS		
Warranty	5~10Years		
Communication method	Default：RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)		
Certified product	CEROHS FCC UN38.3 MSDS ISO9001		
Dimension			
Product Dimension(L*W* Hmm)	440*484*178mm	440*796*178mm	405*750*230mm
Packing Dimension(L*W* Hmm)	555*500*235mm	570*1010*365mm	465*810*290mm
N.W.(kg)	45kg	78kg	105kg
G.W.(kg)	55kg	90kg	115kg

EP-CBT Series

AC/DC Converged cabinet



Pure sine wave



Safety



Set design



RS485



Multiple charging options



MPPT



Features

- Simple and quick installation, integrating solar controller, inverter and battery in one cabinet;
- Compact and elegant design, unique artistic design and convenient output connection ports;
- Large capacity and high power, easy to cope with most of the power scenarios and emergency events;
- Flexible energy storage capacity, supporting three charging methods: photovoltaic power generation, diesel-gasoline generator and grid power generation;
- Supports RS485 communication and wifi or application monitoring;
- Overvoltage, overtemperature, overload, battery BMS communication and comprehensive protection.

Applications



large server industry



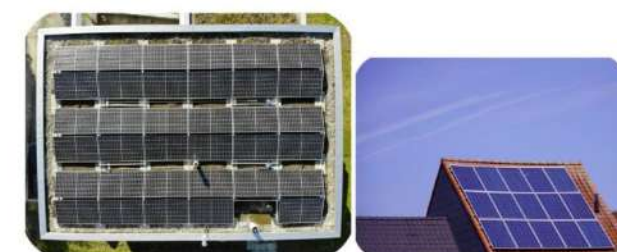
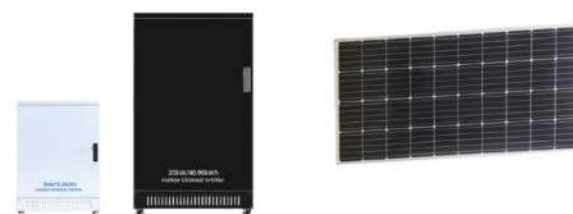
School base stations



charging station



Industrial PV Energy Storage



School emergency backup

Product Specifications EP-CBT

ENéRVIA
Power

Model	EP-CBT-1	EP-CBT-2	EP-CBT-3	EP-CBT-4
Power				
Product Specification	10.24KWh/5KW	20.48KWh/5KW	20.48KWh/10KW	40.96KWh/20KW
Standard Discharge Current	50A		100A	200A
Maximum Discharge Current	100A		200A	400A
Operating Voltage Range	43.2-57.6VDC			
Standard Voltage	51.2VDC			
Maximum Charging Current	50A		100A	200A
Maximum Charging Voltage	57.6V			
DC Input Voltage Range	42-60VDC			
Maximum Grid Input Current	60A		120A	240A
PV Input				
Rated PV Input Voltage	360VDC			
MPPT Tracking Voltage Range	120-450V			
Maximum PV Input Voltage	500V			
Maximum PV Input Power	6000W		11000w	22000W
MPPT Tracker (Input Paths)	1 Path		2 Path	4Path
Maximum PV Charging Current	100A		150A	300A
Maximum Charging Current (Grid + PV)	100A		160A	320A
Others				
Rated Grid Input Voltage	220VAC/230VAC/240VAC			
Grid Input Voltage Range	170VAC~280VAC (UPS Mode) / 120VAC~280VAC (INV Mode)			
Grid Input Frequency Range				
Inverter Efficiency	94% (Typical)			
Inverter Output Voltage	220VAC±2%/230VAC±2%/240VAC±2% (Inverter Mode)			
Inverter Output Frequency	50Hz±0.5 or 60Hz±0.5 (Inverter Mode)			
Inverter Output Waveform	Pure Sine Wave			
Grid Output Efficiency	>99%			
Protection Class	IP20			

EP-QGL Series

LiFePO4 battery (Lead to lithium)



Features

- High quality and safe lithium battery, BMS intelligent battery management system;
- Long normal service life time, long range, more durable;
- Double carrying handle design, easy to install, convenient for daily maintenance;
- Support intelligent control to check the battery status;
- LCD display is easy to operate, user experience is more intuitive;

Applications



Severs



Family



School



Base Stations



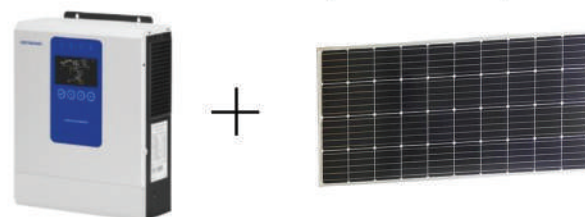
Office



Home/B&B energy storage

Options/Appearance

Optional Solar Inverter with photovoltaic panels.



Product Specifications EP-QGL

ENÉRVIA
Power

Model	EP-QGL-8	EP-QGL-10	EP-QGL-20	EP-QGL-30
Battery				
Standard Battery Voltage	12.8V			
Battery Type	LiFePO4			
Rated Quantity of Electricity	1024Wh	1280Wh	2560Wh	3840Wh
Rated Capacity	80Ah	100Ah	200Ah	300Ah
StingsGroup	4S1P			
Max Continuous Discharge Current	80A	100A		200A
Max Continuous Charge Current	80A	100A		200A
Operation Voltage	10.8-14.4V			
Others				
Protection	Battery Undervoltage Protection/Battery Overvoltage Protection/Overload Power Protection/Inverter Output Short Circuit Protection/Over Temperature Protection etc.			
IP Grade	IP20			
Display Type	LCD			
Altitude	<2000m			
Cycle Life	2200-2400Times			
Operation Temperature	-20 ~60			
Relative Humidity	0%~95%,No Condensation			
Dimension				
Product Dimension(L*W* Hmm)	260*170*220	520*270*230	520*270*230	
N.W.(kg)	9	11	20	
G.W.(kg)	12	15	23	