ECC BATTERY

Energy,Clean & Cost-Efficient

ENERGY STORAGE PRODUCT AND SOLUTION

MAKING ENERGY CLEANER AND MORE EFFICIENT

www.eccbattery.com E-mail: info@eccbattery.com

Company Profile

ECC Battery was established with a desire to build the best Energy Storage System on the planet. Through tireless hours of R&D, we have designed all of our batteries to provide years of trouble free service. We only use the highest quality LiFePo4 cells from the best manufacturers all over the world. Every ECC Battery contains cells that are meticulously sorted and matched for both capacity and resistance. Our main products are home storage power system and solar power system.We exported more than 60 counties and main markets are in Europe countries and North American countries.

200+
Application case

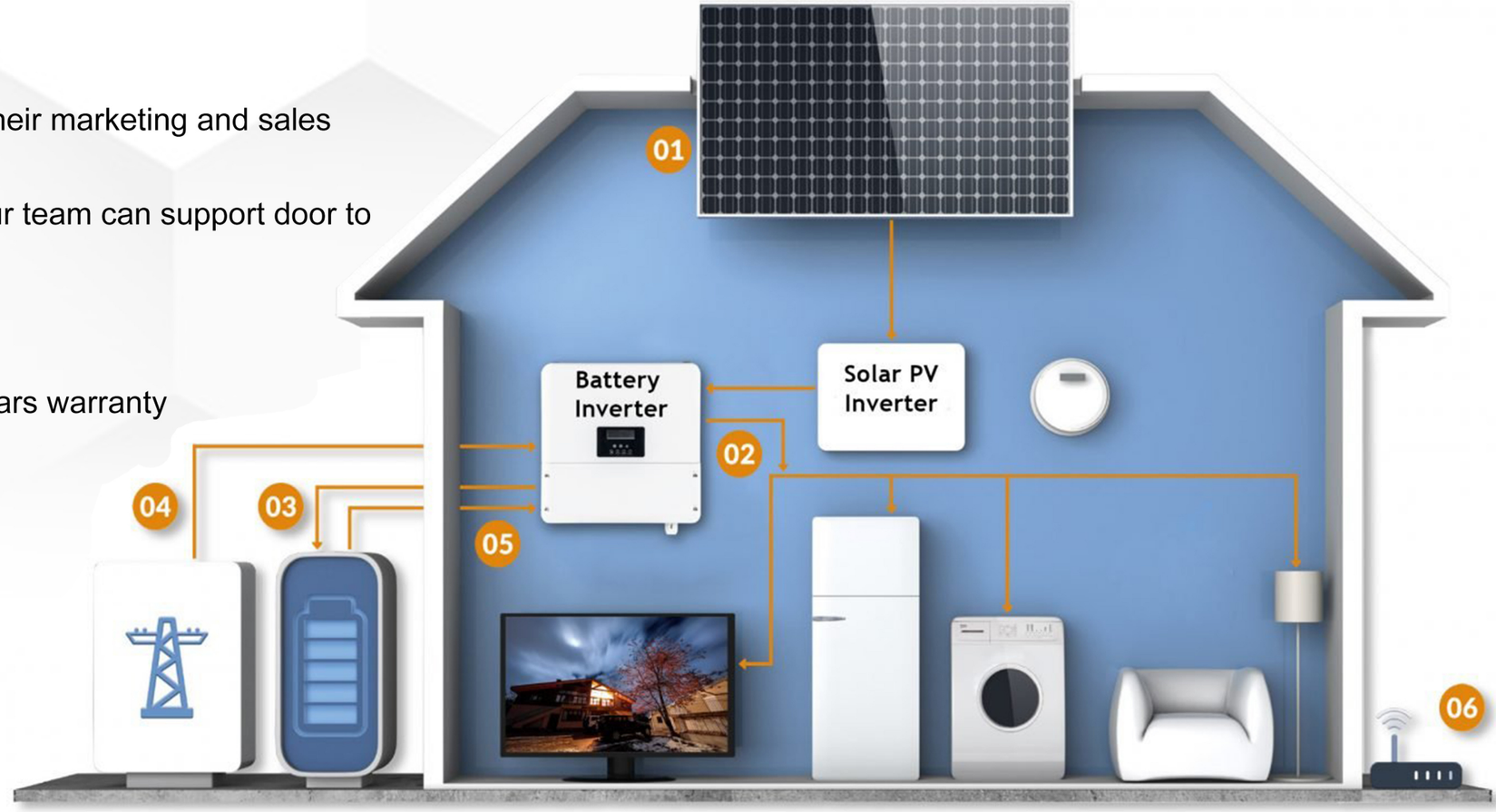
800MW+
Delivery quantity

1GW
Annual capacity

22
patents and works

Our Value-added Services

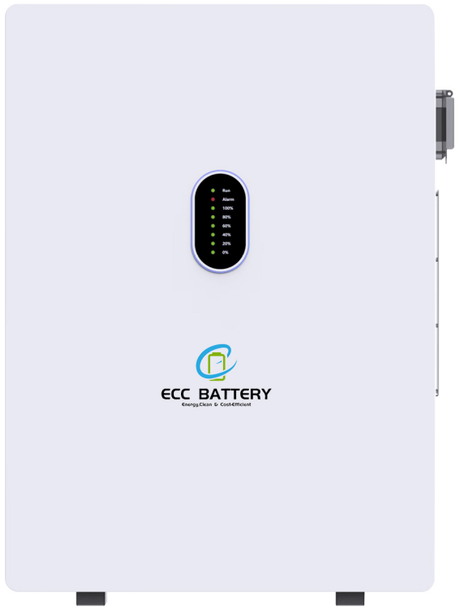
- One Stop solution and design for Home Storage Power System
- Free sample for testing for long term cooperation and partner relationship establishment
- All marketing and sales materials, including high resolution products images, videos, datasheet, user manual will be provided
- Google Ads and SEO, social media marketing strategy training support
- If necessary,our team can support new website design for free
- Free product catalog design
- Promotional gifts provided for customers for their marketing and sales
- Have our cooperative USA warehouse,and our team can support door to door delivery for final comsumers
- 100% Products QC before delivery and 10 years warranty
- 7*24 hours on line service



Product Line

Wall-mounted Home Energy Storage System

LV-BAT-W10.24Aa
51.2V 200Ah



Model: LV-BAT-W5.12Aa
51.2V 100Ah

Luxury villa

Communication base station

Nomadic farm

Residential electricity

Product features:

Flexible
Long cycle life (≥6000cycles@ 80% DOD).

Long-lasting
15 years life design. Long cycle life and superior performance.

High Quality
MES control system for quality traceability

Reliable
With high energy density, compact structure, light weight, and no pollution.

Smart wifi
Support Wifi APP/ cloud platform monitor.

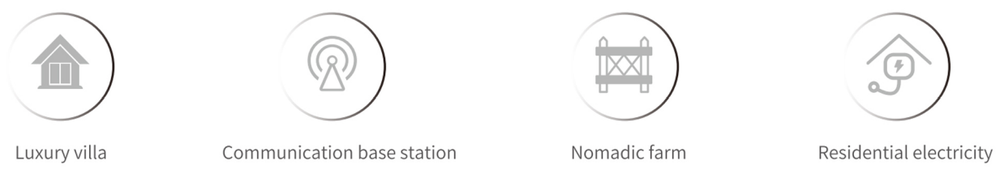
Wide compatibility
Compatible with multiple brands of mainstream inverter use.

Safety
High safety LiFePO4 battery; Fire-safe, non-toxic; Lithium ferrous phosphate (LFP) cells. Meet UL1973,IEC62619 UN38.3 certification.

Model	LV-BAT-W5.12Aa	LV-BAT-W10.24Aa
Nominal Voltage	51.2V	51.2V
Rated Capacity	100Ah	200Ah
Energy	5120Wh	10240Wh
Battery Impedance	≤ 50 mΩ	
Charging Cut-off Voltage	56.16 V	
Discharge Cut-off Voltage	45.6 V	
Recommend Charge Current	0.2 C 20 A	0.2C 40A
Max Charge Current	0°C ~ 15°C: 20A; 15°C ~ 45°C: 50A;	0°C ~ 15°C: 40A; 15°C ~ 45°C: 100A;
Max Continue Discharge Current	125 A, -20°C~60°C ; 65±20%RH	250A, -20°C~60°C ; 65±20%RH
Operating Temperature Range	–20~60℃	
Storage Environment (50% state of charge)	20°C ~ 45°C in three months; 25±3°C over three months; Humidity:65±20%RH	
Environment	Indoor	
Installation	Wall mount	
Cell Technology	Lithium-iron phosphate (LiFePO4)	
Cooling	Natural convection	
Protection Rating	IP54	
Compatible Inverters	SMA, Goodwe, SOFAR, Growatt, Victron energy, LUXPOWER, All brands that compatible with PLYON protocol	
Certificates	CB IEC 62619:2017, CE EMC EN 61000-6-2/4,CE-GPSD EN62619, UN38.3, MSDS	
Dimension and Weight		
Dimension	520*470*141.5mm	800*590*142mm
Battery Net Weight (Approx.)	47.2KG	96.5KG
Communication		
LED Display	SOC and battery working status indicator	
Communication	RS232/RS485/CAN	

Smart Energy Storage System

LV-BST-L5.12-Aa



Product features:

Flexible
Long cycle life (≥6000cycles@ 80% DOD).

Long-lasting
15 years life design. Long cycle life and superior performance.

High Quality
MES control system for quality traceability

Reliable
With high energy density, compact structure, light weight, and no pollution.

Smart wifi
Support Wifi APP/ cloud platform monitor.

Wide compatibility
Compatible with multiple brands of mainstream inverter use.

Safety
High safety LiFePO4 battery; Fire-safe, non-toxic; Lithium ferrous phosphate (LFP) cells. Meet UL1973,IEC62619 UN38.3 certification.

Model	51.2V 100Ah	51.2V 200Ah	51.2V 300Ah	51.2V 400Ah	51.2V 500Ah	51.2V 600Ah
Number of layers	1 layer	2 layers	3 layers	4 layers	5 layers	6 layers
Picture						
Energy	5.12KWh	10.24KWh	15.36KWh	20.48KWh	25.6KWh	30.72KWh
Operating Voltage Range: 43.2V~56.8V						
Dimension (L*W*H)mm	600*210*440	600*210*740	600*210*1040	600*210*1340	600*210*1640	600*210*1940
Weight(KG)	71	119	167	215	263	311
Recommend charge current	50A	50A	50A	50A	50A	50A
MAX charge current	100A	100A	100A	100A	100A	100A
MAX continuous discharge current	100A	100A	100A	100A	100A	100A
Peak discharge current	200A	200A	200A	200A	200A	200A
LED Display	The information of Battery, such as SOC, battery working status.					
Communication	Support RS485 / CAN					
Operating temperature	-20℃～55℃					
Environment	Indoor					
Relative humidity	5%～95%					
Cooling	Natural cooling					
Cell technology	Lithium-iron phosphate (LiFePO4)					
Life cycle	3500 times @80%DOD					
Certificates	IE62619 CB (ITS) IEC62040 CNAS, CE-EMC TUV,UN 38.3					
Single module Technical Specification						
Module	51.2V 100Ah, 5.12kWh					
Dimension (L*W*H)	600*210*300mm					
Battery module weight	48KG					

High Voltage Battery

Luxury villa

Communication base station

Nomadic farm

Residential electricity

Product features:

Flexible
Long cycle life (≥6000cycles@ 80% DOD).

Long-lasting
15 years life design. Long cycle life and superior performance.

High Quality
MES control system for quality traceability

Reliable
With high energy density, compact structure, light weight, and no pollution.

Smart wifi
Support Wifi APP/ cloud platform monitor.

Wide compatibility
Compatible with multiple brands of mainstream inverter use.

Safety
High safety LiFePO4 battery; Fire-safe, non-toxic; Lithium ferrous phosphate (LFP) cells. Meet UL1973,IEC62619 UN38.3 certification.

Model	153.6V 50Ah	204.8V 50Ah	256V 50Ah	307.2V 50Ah
Number of layers	3 layers	4 layers	5 layers	6 layers
Picture				
Energy	7.68KWh	10.24KWh	12.8KWh	15.36KWh
Operating Voltage Range	129.6V~170.4V	172.8V~227.2V	216V~284V	259.2V~340.8V
Dimension (L*W*H)	600*210*820	600*210*980	600*210*1140	600*210*1300
Net Weight	102.5	129	155.5	182
Recommend charge current	10~25A			
Max continue charge current	50A			
Max continue discharge current	50A			
Peak current	100A			
Display	The information of Battery, such as SOC, battery voltage and so on			
Communication	Support RS485 / CAN			
Operating temperature	-20℃~55℃			
Environment	Indoor			
Relative humidity	5%~95%			
Cooling	Natural convection and fan cooling			
Cell technology	Lithium-iron phosphate (LiFePO4)			
Life cycle	3500 times @80%DOD			
Single module Technical Specification				
Dimension (L*W*H)	600*210*160			
Battery module weight	26.5kg			

Single-phase PV+ESS hybrid inverter

Luxury villa

Communication base station

Nomadic farm

Residential electricity

Product features:

- Supports automatic battery switching;
- Parallel available, intelligent BMS management;
- Support diesel generator input source;
- Input power source priority can be set by users;
- Compatible with lead-acid and lithium-ion batteries;
- Battery reverse connection protection, anti-power control function;

Technical specification	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1
Input (PV)						
Max. power(kW)	4.6	4.6	6	6	7	7
Max. DC voltage(V)	550					
MPPT voltage range(V)	125~500					
Max.input current of single MPPT(A)	14					
MPPT tracker/strings	2/1					
AC output						
Rated output power(kVA)	3	3.6	4	4.6	5	6
Max. output current(A)	13	16	17.4	20	21.7	26
Grid voltage/range(V)	230/176~270					
Frequency (Hz)	50 /60					
PF	0.8lagging-0.8leading					
THDi	<3%					
AC output topology	L+N+PE					
Battery						
Battery voltage range(V)	40~58					
Max. charging voltage(V)	58					
Max. charge/discharge current(A)	95/62.2	95/75	95/83.3	95/95.8	95/104.2	95/110
Battery type	lithium /Lead-acid					
Communication interface	CAN/RS485					
EPS output						
Rated power (kVA)	3	3.6	4	4.6	5	6
Rated output voltage(V)	230					
Rated output current(A)	13	16	17.4	20	21.7	26
Rated frequency (Hz)	50 /60					
Automatic switching time (ms)	<20					
THDu	<2%					
Overload capacity	110%, 30S/120%, 10S/150%, 0.02S					
General data						
Battery chage/dischage efficiency	95.0%					
DC Max. efficiency	97.6%					
Europe efficiency	97.0%					
MPPT efficiency	99.9%					
Ingress protection	IP65					
Noise emission (dB)	<35					
Operation temperature	- 25℃～ 60℃					
Cooling	Natural					
Relative humidity	0 ~95% (non-condensing)					
Altitude	2,000m(>2,000 Derating)					
Dimensions W * D * H (mm)	550*200*515					
Weight (kg)	25					
Isolation transformer	No					
Self-consumption(W)	<3					
Display and communication						
Display	LCD					
Interface:RS485/Wifi/4G/ CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes					
Certificates	CE、TUV、SAA、NRS					

Three phase PV+ESS hybrid inverter

Luxury villa

Communication base station

Nomadic farm

Residential electricity

Product features:

- Compatible with lead-acid and lithium-ion batteries;
- Battery reverse connection protection, anti-power control function
- Support diesel generator input source;
- Input power source priority can be set by users;
- IP65 protection, low noise < 35dB;
- Support full power discharge, automatic management of battery charge and discharge;

Technical specification	R8KH3	R10KH3	R12KH3
Input (PV)			
Max.power(kW)	10.4	13	15.6
Max. DC voltage(V)		1,000	
MPPT voltage range(V)		180~850	
Max.input current of single MPPT(A)		12.5	
MPPT tracker/strings	2/1	2/1	2/1
AC output			
Rated output power(kVA)	8.8	11	13.2
Max. output current(A)	12.7	15.9	19.1
Grid voltage/range(V)		400/360~440	
Frequency (Hz)		50 /60	
Power factor		0.8lagging-0.8leading	
THDi		<3%	
AC output topology		3W+N+PE	
Battery			
Battery voltage range(V)		125~600	
Max. charging voltage(V)		600	
Full battery voltage(V)	210	270	250
Max. charge/discharge current(A)	40	40	50
Battery type		lithium /Lead-acid	
Communication Interface		CAN/RS485	
EPS output			
Rated power(kVA)	8.8	11	13.2
Rated output voltage(V)		400	
Max. output current(A)	12.7	15.9	19.1
Rated frequency(Hz)		50 /60	
Automatic switching time(ms)		<20	
THDu		<2%	
Overload capacity		110%, 30S/120%, 10S/150%, 0.02S	
General data			
Battery charge /discharge efficiency	96.6%	96.7%	96.8%
DC Max. efficiency	97.9%	98.2%	98.2%
Europe efficienc	97.2%	97.5%	97.5%
MPPT efficiency	99.5%	99.5%	99.5%
Ingress protection		IP65	
Noise emission(dB)		<35	
Operation temperature		-25°C～ 60°C	
Cooling		Natural	
Relative Humidity		0 ~95%（non-condensing）	
Altitude		2,000m (>2,000 Derating)	
Dimensions W * D * H (mm)		530*200*600	
Weight(kg)		29	
Isolation transformer		No	
Self-consumption(W)		<3	
Display and communication			
Display		LCD	
Interface:RS485/Wifi/4G/ CAN/DRM		Yes/ Opt/ Opt/ Yes/ Yes	
Certificates		CE、TUV	

American PV+ESS split- phase inverter (battery voltage>80v)

Luxury villa

Communication base station

Nomadic farm

Residential electricity

Product features:

- Support 100% unbalanced load capacity;
- Compatible with lead-acid and lithium ion batteries and other battery access;
- Support full power discharge, automatic management of battery charge and discharge;
- Battery reverse connection protection,
- Anti-power control function;
- UL certification;

Technical specification	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA
Input (PV)				
Max. power(kW)	7.8	10.4	13	15.6
Max. DC voltage(V)	500			
MPPT voltage range(V)	125 - 500			
Max.Input current of single MPPT(A)	12			
MPPT tracker/strings	4/1			
AC output				
Rated output power(kVA)	6	8	10	12
Max. output current(A)	27.3	36.4	45.4	50
Grid voltage/range(V)	240/211~264			
Frequency (Hz)	50/60			
PF	0.8lagging-0.8leading			
THDi	< 3%			
AC output topology	L+N+PE			
Battery				
Battery voltage range(V)	85~400			
Max. charging voltage(V)	400			
Full battery voltage(V)	85	110	140	160
Max. charge/discharge current(A)	80/80			
Battery type	lithium /Lead-acid			
Communication Interface	CAN,RS485			
EPS output				
Rated power(kVA)	6	8	10	12
Rated output voltage(V)	220-240 /110-120			
Rated frequency(Hz)	50/60			
Automatic switching time(ms)	<20			
THDu	< 2%			
Overload capacity	110%,30S/120%,10S/150%,0.02S			
General data				
Max. efficiency	⩾98.2%			
CEC efficiency	⩾97.2%			
Ingress protection	IP65/NEMA 3R			
Noise emission(dB)	<25	<25	<29	<29
Operation temperature	-25°C～60°C			
Cooling	Natural			
Relative humidity	0 ~95% (non-condensing)			
Altitude	2,000m(>2,000 Derating)			
Weight(kg)	32			
Dimensions W * D * H (mm)	530* 200* 660			
Display and communication				
Display	LCD			
Interface:RS485/Wifi/4G/ CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes			
Standby power consumption at night(W)	< 2.5 (With the battery < 5)			
Isolation transformer	No			
Safety standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III			

American PV+ESS split- phase inverter (battery voltage:48v)

Luxury villa

Communication base station

Nomadic farm

Residential electricity

Product features:

- Support Parallel available;
- Bypass current capacity up to 100A;
- Support 100% unbalanced load capacity;
- UL certification;

Technical specification	R5KLNA	R6KLNA	R8KLNA	R10KLNA
Input (PV)				
Max. power(kW)	7.5	9	12	13
Max. DC voltage (V)	500			
MPPT voltage range(V)	120~500			
Max.Input current of single MPPT(A)	12			
MPPT tracker/strings	4/1			
AC output				
Rated output power(kVA)	5	6	8	10
Max. output current(A)	24	28.8	38.3	47.8
Ac output voltage(V)	120/240(split phase), 208(2/3 phase),230 (single phase)			
Frequency (Hz)	50/60			
PF	0.8lagging-0.8leading			
THDi	< 3%			
AC output topology	Split phase, 2/3 phase, single phase			
Battery				
Battery voltage range(V)	40~58			
Max. charging voltage(V)	58			
Max. charge/discharge current(A)	120/120	135/135	190/190	210/210
Battery type	lithium /Lead-acid			
Communication interface	CAN/RS485			
EPS output				
Rated power(kVA)	5	6	8	10
Rated output voltage(V)	120/240 (split phase), 208 (2/3 phase),230 (single phase)			
Rated output current(A)	24	28.8	38.3	47.8
Rated frequency(Hz)	50/60			
Automatic switching time(ms)	＜20			
THDu	< 2%			
Overload capacity	125%,60S/150%,1S			
General data				
Max. efficiency	⩾98.2%			
North american efficiency	⩾97.2%			
Ingress protection	IP65/NEMA 3R			
Noise emission(dB)	<25	<29	<29	<29
Operation temperature	-25°C ~ 60°C			
Cooling	Natural			
Relative humidity	0 ~95%（non-condensing）			
Altitude	2,000m(>2,000 Derating)			
Dimensions W *D *H (mm)	430*220*710			
Weight(kg)	41			
Isolation transformer	No			
Self-consumption(W)	<3			
Display and communication				
Display	LCD, touch screen			
Interface:RS485/Wifi/4G/ CAN/DRM	Yes			
Safety standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III,NRS			

PV+ ESS integrated machine

Villages without electricity

Off-grid island

Nomadic farm

Off-grid mine

Product features:

Friendly flexible

- Various working modes can be set flexibly.
- PV controller modular design, easy to expand.

Safe and reliable

- Built-in isolation transformer for high load adaptability.
- Perfect protection function for inverter and battery.
- Redundancy design for important functions.

Abundant configuration

- Integrated design, easy to integrate.
- Support simultaneous access of load, battery, power grid, diesel and PV.
- Built-in maintenance bypass switch, improve system availability.

Intelligent and efficient

- Support battery capacity and discharge time prediction.
- Smooth switching between on and off grid, uninterrupted supply of load.
- Operate with EMS to monitor system status in real time.

MPS PV and battery configuration principles:

- Boost mode configuration principle - open voltage at low temperature at the limit of PV installation * number of PV panels in series≤the lowest voltage of the battery.
- Buck mode configuration principle - the maximum power operating voltage at the extreme high temperature of PV installation≥the highest voltage of the battery.
- The PV and battery configurations of MPS must comply with the above configuration principles.

Technical specification	MPS0030	MPS0050	MPS0100	MPS0150	MPS0250	MPS0500
AC(on-grid)						
Max output power(kVA)	33	55	110	165	275	550
Rated power(kW)	30	50	100	150	250	500
Rated voltage(V)	400					
Rated current (A)	43	72	144	216	361	722
Voltage range(V)	320~460					
Rated frequency (Hz)	50/60					
Frequency range(Hz)	45~55/55~65					
THDi	<3%					
Power factor	1lagging~1leading					
AC connection	3W+N+PE					
Transformer ratio	100/400	200/400	270/400	270/400	270/400	315/400
AC(Off Grid)						
Max output power(kVA)	33	55	110	165	275	550
Rated power(kW)	30	50	100	150	250	500
Rated voltage(V)	400					
Rated current(A)	43	72	144	216	361	722
THDu	⩽1% linear; or⩽5% nonlinear					
Rated frequency(Hz)	50/60					
Overload capacity	110% long-term					
Photovoltaic input						
Max.PV input voltage(V)	1,000					
Max.PV power(kW)	60/120	60/120	120/180/240	120/180/240	300/360	600/660/720
MPPT voltage range(V)	250-850					
MPPT voltage range @full load (V)	450-850					
Battery						
Battery voltage range(V)	250~850	320~850	420~850	420~850	420~850	500~850
Max. charging power(kW)	60/120	60/120	120/180/240	120/180/240	300/360	600/660/720
General data						
Dimension W*D*H(mm)	800*800*1,900	800*800*1,900	1,200*800*2,050	1,200*800*2,050	(600*720*2,050)*1+ 1,200*800*2,050	(600*720*2,050)*2+ 2,800*1050*2,050
Weight(kg)	620/650	720/750	1,120/1,150/1,180	1,250/1,280/1,310	1,980/2,010	3,265/3,295/3,325
Operation temperature	-30°C ~ 55°C					
Relative humidity	0 ~95% non-condensing					
Ingress protection	IP20					
Noise emission(dB)	<70dB					
Altitude	5,000m(>3,000 Derating)					
Cooling	Air Cooling					
Display and communication						
Display	LCD touch-screen					
BMS communication	RS485, CAN					
EMS communication	RS485, TCP/IP					
Certificates	TUV,CE					

Energy storage converter (without isolation transformer)

PV charging station

Wind power storage

Combined thermal power FM

Grid-side storage

Product features:

Friendly flexible
- Wide battery voltage range, support multiple battery access.
- Reactive power, active power adjustable.
- Off-grid cold start function, support multi-machine parallel function.

Safe and reliable
- High performance DSP, optimized control circuit design, high reliable system.
- Patented control detection algorithm to ensure equipment failure diagnose.
- AC/DC dual backup for auxiliary power supply.

Abundant configuration
- Integrated design for easy transportation and integration.
- Support RS485, CAN communication mode, can accept BMS instruction in real time.

Intelligent and efficient
- Highest power density, maximum efficiency of 98.7%.
- Low power consumption fan, with intelligent temperature control system.
- With grid-connected charging and discharging, off-grid independent inverter function.

Technical specification	MEGA0500	MEGA0630
DC(battery)		
Voltage range(V)	600~900	
Max. current (A)	935	1,179
AC(on-grid)		
Max output power(kVA)	550	693
Rate output power(kW)	500	630
Rated voltage(V)	400	
Voltage range(V)	320~460	
Rated current(A)	722	909
Max. output current (A)	800	1,000
Rated frequency (Hz)	50/60	
Frequency range(Hz)	45~55/55~Z65	
THDi	<3%	
Power factor	1lagging-1leading（Settable）	
AC connection	3W+PE	
AC(off grid)		
Rated voltage(V)	400	
THDu	＜1% Linear ＜5% Nonlinear	
Rated frequency(Hz)	50/60	
Overload capacity	110% ～long-term	
General data		
Max.efficiency	98.7%	
Ingress protection	IP21	
Noise emission(dB)	<70	
Operating temperature	-30°C～ 55°C	
Cooling	Forced air	
Relative humidity	0 ~95% non-condensing	
Altitude	5000m(>3000 Derating)	
Dimension W * D * H (mm)	1,200*800*2,050	
Weight(kg)	950	
Transformer	No	
Self-consumption(W)	<10	
Display and communication		
Display	LCD touch-screen	
BMS communication	RS485, CAN	
EMS communication	RS485, TCP/IP	
Certificates	CE, CGC, TUV, L1HVRT	

Energy storage converter (with isolation transformer)

C&I energy storage

Wind power storage

PV charging station

Product features:

Friendly & flexible
- Wide battery voltage range, support multiple battery access.
- Reactive power, active power adjustable.
- Off-grid cold start function, support multimachine parallel function.

Safe and reliable
- Built-in isolation transformer, high load adaptability.
- AC/DC dual backup for auxiliary power supply.

Abundant configuration
- Integrated design for easy transportation and integration.
- Integrated on and off-grid automatic switching components, saving users' system costs.
- Support RS485, CAN communication mode, can accept BMS instruction inreal time.

Intelligent and efficient
- Highest power density, maximum efficiency of 97.5%.
- With grid-connected charging and discharging, off-grid independent inverter function.

Technical specification	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS
DC(battery)						
Voltage range (V)	250~850	320~850	420~850	420~850	420~850	500~850
Max. Current (A)	137	178	270	405	673	1128
AC(on-grid)						
Max output power(kVA)	33	55	110	165	275	550
Rate output power(kW)	30	50	100	150	250	500
Rated voltage(V)	400					
Voltage range(V)	320~460					
Rated current(A)	43	72	144	216	361	722
Max. output current(A)	48	80	159	238	397	794
Rated frequency (Hz)	50/60					
Frequency range (Hz)	45~55/55~65					
THDi	<3%					
Power factor	1lagging-1leading（Settable）					
AC connection	3W+N+PE					
AC(off grid)						
Rated voltage(V)	400					
THDu	＜1% Linear ＜5% Nonlinear					
Rated frequency(Hz)	50/60					
Overload capacity	110% long-term					
General data						
Max.efficiency	96.3%	96.5%	97.1%	97.1%	97.3%	97.5%
Ingress protection	IP21					
Noise emission(dB)	<70					
Operating temperature	-30℃～ 55℃					
Cooling	Forced air					
Relative humidity	0 ~95% non-condensing					
Altitude	5,000m(>3,000 Derating)					
Dimension W*D*H (mm)	800*800*2,050	800*800*2,050	800*800*2,050	800*800*2,050	1,200*800*2,050	1,600*1,050*2,050
Weight(kg)	605	676	936	1,057	1,582	2,665
Transformer ratio	100/400	200/400	270/400	270/400	270/400	315/400
Self-consumption (W)	<10					
On/ Off grid switching	Automatic					
Display and communication						
Display	LCD touch-screen					
BMS communication	RS485, CAN					
EMS communication	RS485, TCP/IP					
Certificates	CE, CGC, TUV					

Container type energy storage booster

PV power station energy storage

Wind power storage

Combined thermal power FM

Grid-side storage

Product features:

Friendly & flexible
- System can be expanded to MW level by parallel.

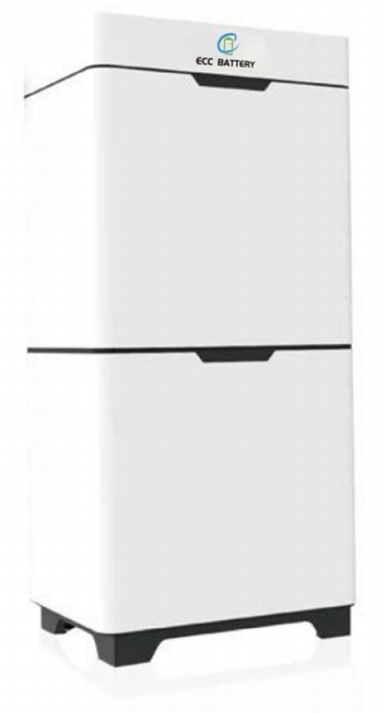
Safe and reliable
- Support multiple battery input to improve battery cycle life.
- High switching frequency design, low current ripple and high power quality.

Abundant configuration
- Integrated multiple boost systems.
- Integrated ventilation system.

Intelligent and efficient
- Built-in EMS function to improve energy efficiency management.
- Latest IGBT module, high efficiency conversion.

Technical specification	ESSC1000A-MV35	ESSC1260A-MV35	ESSC2000A-MV35	ESSC2500A-MV35
DC(battery)				
Battery voltage range(V)	500-900			
AC(on-grid)				
Max. apparent power(kVA)	1,100	1,386	2,200	2,750
Rate output power(kW)	1,000	1,260	2,000	2,500
Rated voltage(kV)	35			
Voltage range(kV)	38.5±2×2.5%（6、10、22）可选			
Rated current(A)	16.5	20.8	33	41.2
Max. output current(A)	18.1	22.9	36.3	45.4
Rated frequency(Hz)	50/60			
Frequency range(Hz)	45-55/55-65			
THDi	<3%			
Power factor	1lagging-1leading（Settable）			
AC connection	3W+PE			
General data				
Max.efficiency	98%			
Ingress protection	IP54			
Noise emission(dB)	<75			
Operating temperature	-30°C～ 55°C			
Cooling	Temperature controlled forced air cooling			
Relative humidity	0 ~95% non-condensing			
Altitude	5,000m(>3,000 Derating)			
Dimension W*D*H (mm)	4,300*2,438*2,591	4,300*2,438*2,591	6,058*2,438*2,591	6,058*2,438*2,591
Weight(kg)	4,500	4,500	8,000	8,000
Transformer	No			
Self-consumption(W)	＜20	＜20	＜40	＜40
Booster transformer	Manual (default)/ Automatic (optional)			
Display and communication				
Display	LCD touch-screen			
BMS communication	RS485/CAN			
EMS communication	Modbus-Tcp, Modbus-RTU, RS485, TCP/IP			
Certificates	CE、CGC、TUV			

Storage battery cabinet



- Easy installation, simple connection.
- Compatible with CANbus/RS485 communication interface.
- Support battery expansion.
- System cycle life ≥ 10 years.

Luxury villa | Residential electricity | Nomadic farm | Communication base station

Technical specification	E072B048	E144B048
Total energy(kWh)	2.4/4.8/7.2	9.6/12/14.4
Nominal voltage(V)	48	48
Designed life	⩾10 years (25 °C /77F)	⩾10 years (25 °C/77F)
Discharge voltage(V)	45~ 54	45~ 54
Charging voltage(V)	52.5~ 54	52.5~54
Max. charging current(A)	25/50/75	100/120
Max. discharge current(A)	25/50/75	100/120
Storage temperature	-10°C ~+60°C	-10°C ~+60°C
Max. working altitude(m)	<4,000	<4,000
Relative humidity	10%~90%	10%~90%
Installation	GT-XL	立柜式
Ingress protection	IP21	IP21
Operating temperature	-10°C ~+50°C (discharge) 0°C ~+50°C (charging)	-10°C ~+50°C (discharge) 0°C ~+50°C (charging)
Weight(kg)	83	163
Dimension W*D*H(mm)	520*350*680	520*350*1,200
Certificates	CE	CE

Outdoor cabinet type energy storage system

- Simple structure, small footprint, flexible layout, easy installation operation and maintenance.
- Built-in fire control, temperature control, system warning function for multiple security.
- Intelligent control system, can be connected to the local monitoring system for system control.
- IP54 design.

C&I user side | Power shortage areas | Off-grid island | Off-grid mine | Nomadic farm

Technical specification	
DC data	
Battery capacity (kWh)	100~200
Number of battery racks	1~2
BMS communication interface	RS485/CAN
DC voltage range(V)	420~850
AC data	
Rated AC power(kW)	30~150
Max. AC power(kW)	30~150
Rated AC current(A)	43~216
Max. AC current(A)	48~238
DC current component	＜0.5%
THDi	＜0.3% (Rated power)
Rated grid voltage(V)	400
Allowable grid voltage range(V)	320~460
Rated grid frequency(Hz)	50/60
Allowable grid frequency range(Hz)	45~55/55~65
Power factor	1lagging-1leading
Isolation method	With the isolation
General Data	
Ingress protection	IP54
Fire extinguishing system	Support
Operating temperature	-30°C～ 55°C
Dimension W*D*H (mm)	Customization*1,300*2,400
Weight (kg)	Customization
BMS communication mode	Modbus-RTU, CAN, RS485
EMS communication mode	Modbus-Tcp, Modbus-RTU,RS485, TCP/IP
PCS cooling way	Temperature control intelligent air cooling
Battery cooling way	Air conditioning cooling
Altitude	4,500m (>3,000 Derating)

Container storage system

PV charging station

Wind power storage

Combined thermal power FM

Grid-side storage

Technical specification	ESSC0500A-1106
DC data	
Battery capacity (MWh)	1,106
Number of battery racks	8
BMS communication interface	RS485/CAN
DC voltage range (V)	600~850
AC data	
Rated AC power(kW)	500
Max. AC power(kW)	550
Rated AC current(A)	722
Max. AC current(A)	800
DC current component	＜0.5%
THDi	＜0.3% (Rated power)
Rated grid voltage(V)	400
Allowable grid voltage range(V)	320~460
Rated grid frequency(Hz)	50/60
Allowable grid frequency range	45~55/55~65
Power factor	1lagging-1leading
Isolation method	No isolation
General data	
Ingress protection	IP54
Fire extinguishing system	support
Running time (full power)	2h
Operating temperature	-30℃～ 55℃
Dimension W*D*H (mm)	12,192*2,438*2,896
Weight (T)	3.5
PCS communication mode	RS485, CAN
PCS communication protocol	RS485, TCP/IP
PCS cooling way	Temperature control intelligent air cooling
Battery cooling way	Air conditioning cooling
Altitude	4,500m(>3,000 Derating)
Relative humidity	0 ~95% non-condensing

Product features:

Friendly & flexible
- Standardized design, easy for capacity expansion, easy for maintenance.
- Independent air flow design for high reliability.

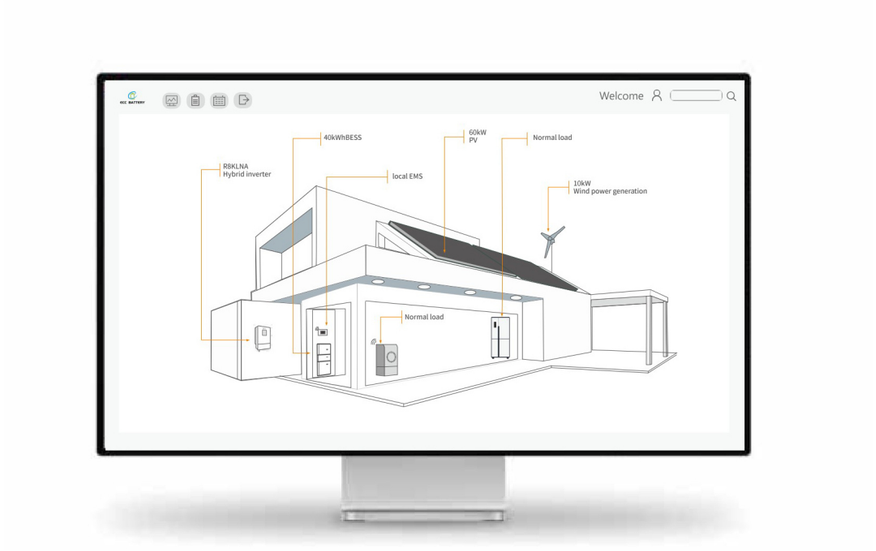
Safe and reliable
- Support battery management system and comprehensive thermal management.
- Realize the fault classification protection algorithm.

Abundant configuration
- All kinds of power configuration for different projects.
- Integrated monitoring system.

Intelligent and efficient
- Support real-time online monitoring of system status.
- Large capacity, long life, high discharge rate.

EMS（energy management system）

EMS is developed by Megarevo for a variety of application scenarios of energy storage systems. Through independent learning and data analysis, EMS can provide users with optimal charging and discharging operation strategies to help customers to improve the efficiency of clean energy and save energy cost. In addition, the EMS supports system monitoring and real-time fault alarms. can easily master the system charging state, battery voltage, temperature, auxiliary system status and other detailed information anytime and anywhere.



Perfect functions

- Support multiple communication protocols;
- Support 5-year historical data review;

Intelligent security

- More accurate and comprehensive monitoring;
- Real-time control of PCS and battery operation data;

Easy & convenient

- User-friendly operation interface, simple and easy to operate;
- Support mobile APP/ wechat mini program for remote management;

Application Area

Microgrid system energy control

C&I peak cutting and valley filling energy control

PV charging station energy control

Frequency modulation peak modulation energy control

BR3000 communication management machine

BR3000 communication management machine adopts high-performance 4-core A9 processor, main frequency up to 1.4GHz, supports 2 10/100 adaptive industrial Ethernet interface, 4 serial communication interface (1 RS232/4 RS485), can be customized WIFI/CAN, large capacity SD memory card interface, built-in RTC, buzzer, etc. It can provide users with powerful computing capacity and flexible communication modes, small size and easy installation. Embedded with 512MB DDR3 SDRAM and 8G Flash memory, abundant communication ports are ideal for PV power station communication, power environment monitoring in computer rooms, ESS energy management and other applications.

- Supports 4 RS485,1 RS232,2 Ethernet, standard 4G, support WIFI/CAN customization;
- Linux operating system, perfect debugging software, convenient and flexible device access;

- Embedded WEB built-in database, data cloud platform, mobile phone Wechat mini program access
- Equipped with large capacity Flash and memory, supporting device data browsing and historical data report through embedded WEB;

Data acquisition stick

Wifi

4G

Data acquisition stick supports GPRS, WiFi, 4G, Ethernet and other communication modes. In addition, the bucket rod logger supports serial communications such as RS485/RS232/RS422/TTL. The multi-cover design makes it suitable for most inverters. By collecting the operating status of the inverter, rod loggers can effectively monitor the PV system over long periods of time, improve efficiency and significantly reduce administrative costs. With its extended features such as GNSS, shutdown alerts and bluetooth, stick logger enable quick configuration on site and simple plant operations.

Project Cases

5.9 kWp Sistema FV Birmingham, UK Residence

4,86 kWp Sistema FV Michigan, USA Residential

550 kW Rooftop PV Plant In Berlin, Germany

1 MW PV Plant in La Serena, Chile

205 MW PV plant in Milan, Italy

168 MW PV plant in England, UK

Our Partners

victron energy
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EVE

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SUNGROW

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SINENG

SOFAR SOLAR

KSTAR

TBEA

KEHUA TECH

GROWATT

Co-founders

ECC BATTERY

Mr Roy

CEO of ECC Battery

16 years working experience in home storage power industry

Professional in engineering for batteries,management and team building

Also get the lawyer license,and familiar for Chinese business law

Ms Nicola

VP of Marketing and Sales of ECC Battery

Cooperated with customers from more than 60 countries

Handle the Daimler SD project successfully 5 years ago in Farasis

Professional in inernational marketing and sales;custmer service management

Marketing training and consultant for more than 1000 companies in China

Mr David

COO of ECC Battery

16 years working experience in google Ads and SEO for website

SEO training and consultant for more than 1000 companies in China

Professional in website desgin and website& social media marketing operation

Our Team

SERVICE TEAM

30+ people customer service team

Provide multi-language service

7*24 hours online

One stop solution service

QC TEAM

30+ people quality control team

Strictly control production quality

Product test report available

DESIGNED AND DEVELOPED

World-renowned designer

New product New design New packaging

Over 100 patented designs

Customizable style