



Camel Energy



RESIDENTIAL ENERGY STORAGE

LITHIUM BATTERY SOLUTIONS

Camel Energy Technology Co.,Ltd
To Be The World's Leading Clean Energy Service Provider



To Be The World's Leading Clean Energy Service Provider



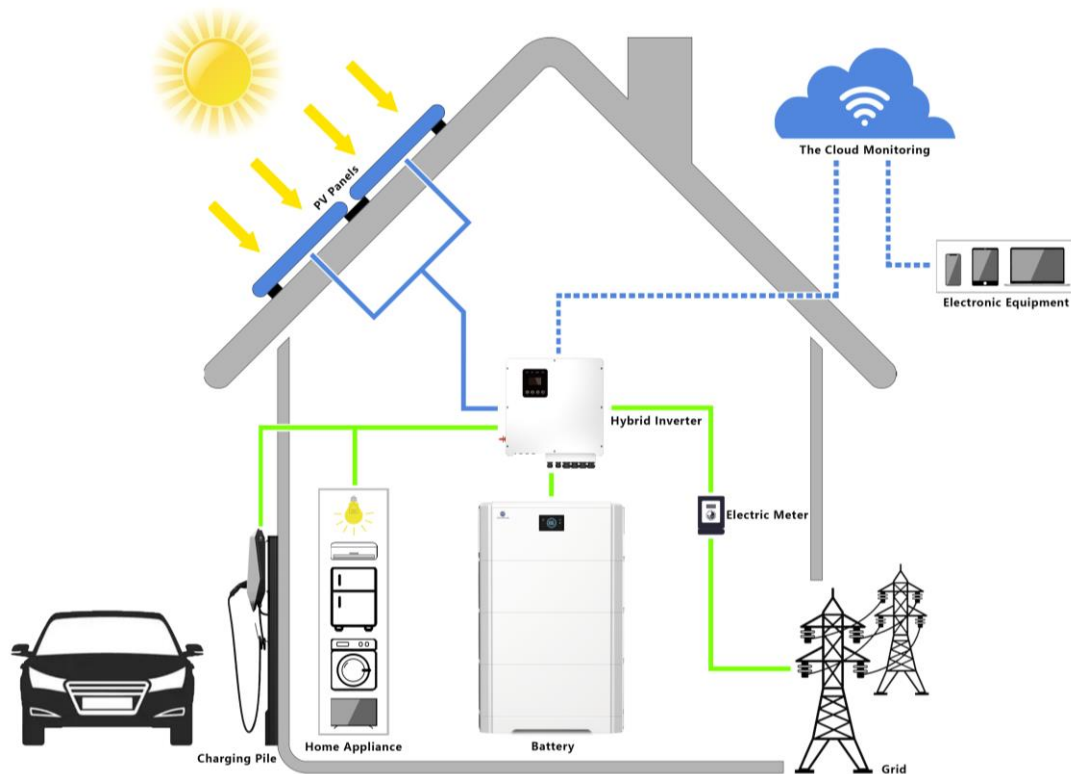
Camel Energy Technology Co., Ltd., as a subsidiary of Camel Group Co., Ltd. (SH 601311), is a high-tech enterprise engaged in energy storage system in China. The Company takes the lead in grid energy storage, industrial and commercial energy storage, household energy storage, portable power-supply energy storage, and integrated energy solutions services. Committed to the ambition of zero-carbon clean energy systems, the company complies with the vision of “Be the world’s leading clean energy service provider”.

Camel Energy Technology embraces a wide range of core patents related to the energy storage cells, battery modules, battery management systems (BMS), power conversion systems (PCS), energy management systems (EMS), energy storage fire-fighting systems, energy storage cloud monitoring platforms, etc. The company also claims considerable strength in R&D, production, and application in the energy storage industrial chain. Camel’s products are applied to various scenarios such as power auxiliary services, renewable energy power plants, industrial users, large and medium-sized communities, industrial and commercial buildings, green energy storage houses, portable energy sources, border islands, data centers, and comprehensive parks, etc.

Camel Energy Technology undertakes the missions of “Providing green power, developing a circular economy, and satisfying the people’s desires for a better life”. Through co-operating with universities and science & technology research institutions. Camel Energy aims to scale-up cutting-edge research results into industrial applications and connect technology with low-carbon life. In compliance with the mission “Be the world’s leading clean energy service provider” and to provide safer, more efficient, and environmentally friendly clean energy products. Camel Energy is deeply involved in promoting technology research and product innovation. Camel will keep up steady progress together with its clients to deliver the most honorable customer service so as to build a solid framework for a low carbon world.

Residential Energy Storage Products

---- Application scenarios



Self-consumption

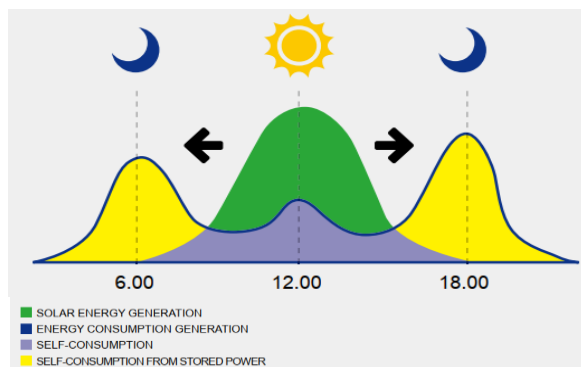
Camel Storage automatically stores excess solar power during the day. Then you can draw electricity right from your battery when you need it.

Operation Scheduling

Camel Storage is virtual power plant compatible which means that any excess battery energy can be utilized by the grid or electricity retailers to provide additional savings.

Load Shifting (Peak Shaving)

Peak shaving is a strategy for avoiding peak demand charges by quickly reducing power consumption during a demand interval. Camel Storage provides charge /discharge monitors to cap peak demand and avoid high energy bills.



Energy Backup (UPS Mode)

Camel Storage can work as an energy backup unit, providing uninterrupted blackout protection when the grid goes down.

Manage Your Energy Anytime, Anywhere

Camel APP provide real-time feedback on your usage. It ultimately creates a more stable and renewable friendly energy grid.



Stackable Residential Energy Storage High-voltage Battery Pack

---- Camel HESB1



- Improve power self-generation to save user's electricity bills;
- Reduce electricity load due to peak load cutting.
- Solve the problem of new energy consumption and ease the pressure on grid regulation;
- Emergency power supply in case of power failure.



High Security: Maximum safety performance with LFP technologies.



Compact Design: Battery and BMS are highly integrated, without cable connection between external structure.



Reliable Sealing: IP65 protection for indoor and outdoor use.



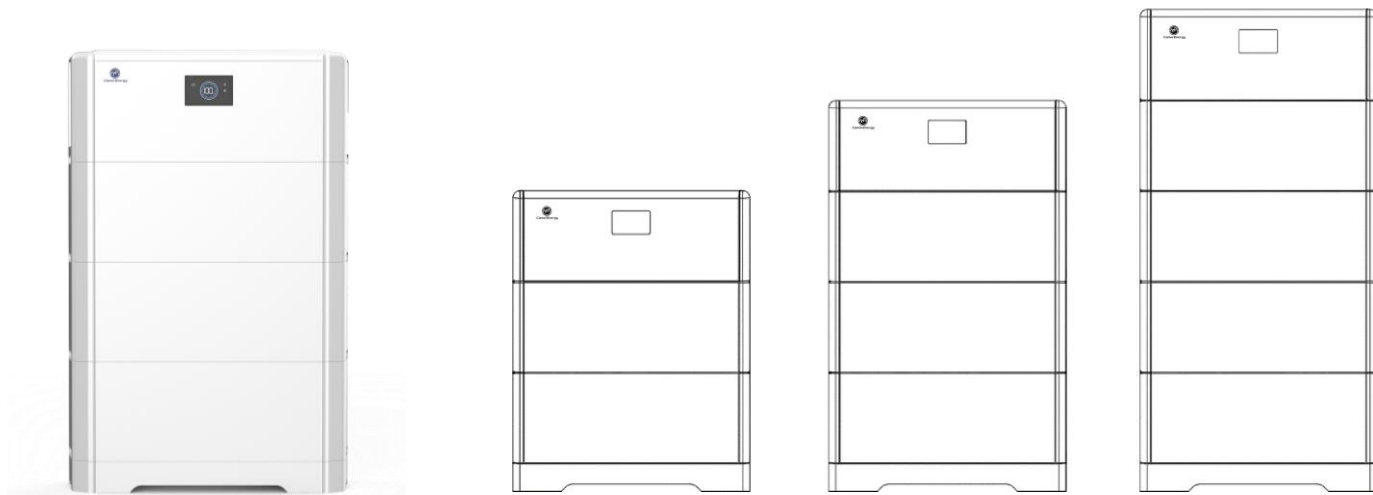
Wide Compatibility: Compatible with mainstream inverter brand.



Life Span: The battery is designed to last up to 10 years.

Stackable Residential Energy Storage High-voltage Battery Pack

---- Camel HESB1



Model	Camel HESB1-10	Camel HESB1-15	Camel HESB1-20
Number of Battery	2	3	4
Rated Power(kWh)	10.24	15.36	20.48
Rated Voltage(V)	102.4	153.6	204.8
Charge/Discharge cut off Voltage(V)	89.6~115.2	134.4~172.8	179.2~230.4
Rated Charge/Discharge Current(A)	25/25		
Max. Charge/Discharge Current(A)	50/50		
Communication Interface	CAN 2.0/RS485		
Protection Features	Charging overvoltage protection, discharge under -voltage protection, over current protection, over temperature protection, short circuit protection, etc.		
IP Rating	IP55		
Altitude	<2000m		
Weight(kg)	100.5	142.5	184.5
Size(W*H*D,mm)	720*860*220	720*1110*220	720*1360*220
Operating Temperature Range	Charge:0~50°C; Discharge:-10°C~50°C		
Storage Temperature Range	-20°C~50°C		
Humidity Range	10%~95%,non condensation		
Safety	IEC62619/UL1973		
Transport	UN38.3		

Racked Residential Energy Storage Low-voltage Battery Pack

---- Camel LV5200



- Improve power self-generation to save user's electricity bills;
- Reduce electricity load due to peak load cutting.
- Solve the problem of new energy consumption and ease the pressure on grid regulation;
- Emergency power supply in case of power failure.



Flexible Investment

Lead acid replacement;
Suitable for rack or cabinet using



Easy Installation

Compact and Light
Easy installation by 1-2 person



Excellent low temp. performance

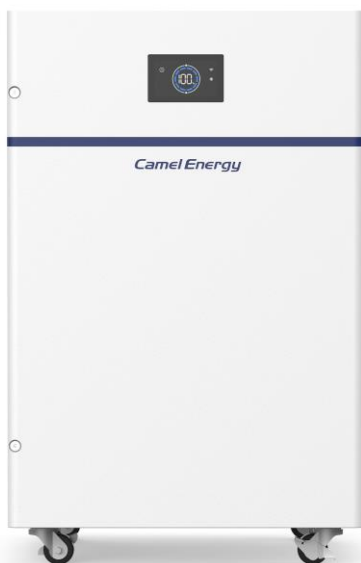
Operate at -10°C without any limitation and attenuation



Perfectly Compatible

Compatible with mainstream brand inverters

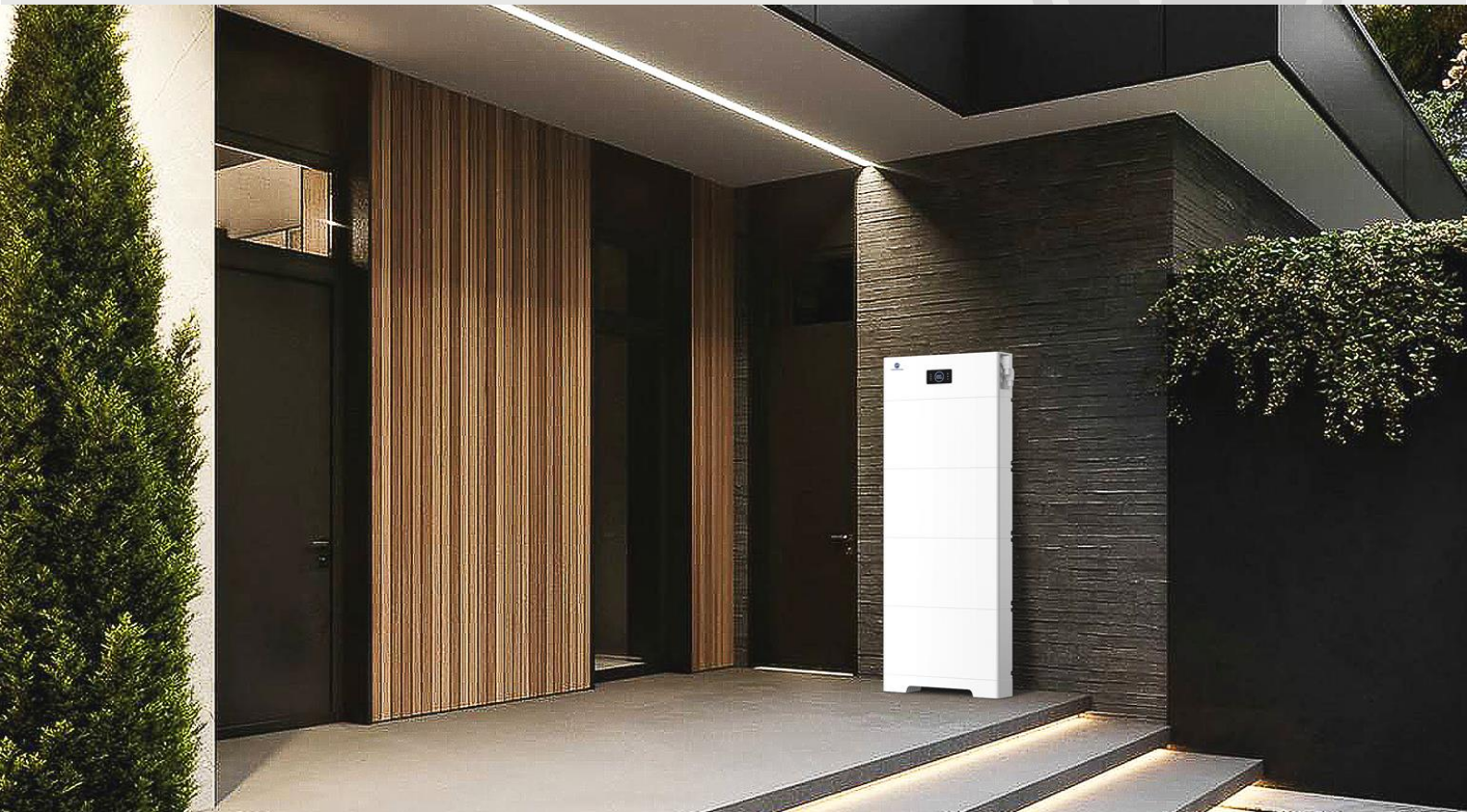
Backed Residential ---- Camel LV520



Model	LV5200-5	LV5200-10	LV5200-15	LV5200-20	LV5200-25	LV5200-30	LV5200-35	LV5200-40
Number of Parallel	1	2	3	4	5	6	7	8
Rated Power(kWh)	5.12	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Rated Voltage(V)	51.2							
Charge/Discharge cut off Voltage(V)	46.4~55.2							
Rated Charge/Discharge Current(A)	50/50	100/100	150/150	200/200	200/200	200/200	200/200	200/200
Max. Charge/Discharge Current(A)	50/100	100/200	150/200	200/200	200/200	200/200	200/200	200/200
Communication Interface	CAN 2.0/RS485							
Protection Features	Charging overvoltage protection, discharge under –voltage protection, over current protection, over temperature protection ,short circuit protection, etc.							
IP Rating	IP20/IP65							
Altitude	<2000m							
Weight(kg)	45	90	135	180	225	270	315	360
Opertating Temperature Range	Charge:0~50℃; Discharge:-10℃~50℃							
Storage Temperature Range	-20℃~50℃							
Humidity Range	10%~95%,non condensation							
Size(W*H*D,mm)	482*135*433/PACK							
Safety	UL1973/IEC62619							
Transport	UN38.3							

Stackable Residential Energy Storage Low-voltage Battery Pack

---- Camel HESS



- Improve power self-generation to save user's electricity bills;
- Reduce electricity load due to peak load cutting.
- Solve the problem of new energy consumption and ease the pressure on grid regulation;
- Emergency power supply in case of power failure.



Flexible Investment

Stackable module design, each module 5kWh, extendable from 5 to 60kWh



Easy Installation

Compact and Light
Easy installation by 1-2 person



Excellent low temp. performance

Operate at -10°C without any limitation and attenuation



Cloud Control

Cloud compatible control
Manage your energy
Anytime, Anywhere

Stackable Residential Energy Storage Low-voltage Battery Pack

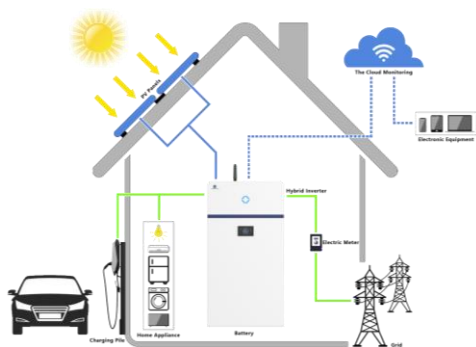
---- Camel HESS



Model	Camel HESS-5	Camel HESS-10	Camel HESS-15	Camel HESS-20
Number of Battery	1	2	3	4
Rated Power(kWh)	5	10	15	20
Rated Voltage(V)	51.2	51.2	51.2	51.2
Charge/Discharge cut off Voltage(V)	46.4~55.2	46.4~55.2	46.4~55.2	46.4~55.2
Rated Charge/Discharge Current(A)	50/50	100/100	150/150	200/200
Max. Charge/Discharge Current(A)	50/100	100/200	150/200	200/200
Communication Interface	CAN 2.0 / RS485			
Protection Features	Charging overvoltage protection, discharge under -voltage protection, over current protection, over temperature protection , short circuit protection, etc.			
IP Rating	IP55			
Altitude	<2000m			
Weight (kg)	58	103	148	201
Size(W*H*D,mm)	573*597*189	573*912*189	573*1227*189	573*1542*189
Operating Temperature Range	Charge:0~50°C; Discharge:-10°C~50°C			
Storage Temperature Range	-20°C~50°C			
Humidity Range	10%~95%,non condensation			
Safety	IEC62619/UL1973			
Transport	UN38.3			

All-in-one Wall-mounted Residential Energy Storage System

---- Camel Intel 10



	Hybrid Inverter Power Model		
	3.6kW	5kW	6kW
	Battery Capacity 10kWh (Expandable from 10 to 40kWh)		



Long life and safety(LFP):

Designed service life of more than ten years and more than 6000 cycles.



Multipurpose:

The system can support photovoltaic charging, load matching, remote dispatching and emergency power supply (off grid).



Intelligent:

Camel APP provide real-time feedback on your usage. Each battery pack with independent BMS system manages power output smartly and effectively.



Economical& Efficiency:

Inverter and battery system integrated design to achieve lower cost, improve power quality and energy efficiency; Support AC, DC and AC&DC coupling.

All-in-one Wall-mounted Residential Energy Storage Systems

---- Camel Intel 10

Items	Intel 10		
Battery type	LiFePO4		
Battery capacity	10kWh		
Useable capacity	9.6kWh		
Scalable capacity range	10~40kWh (95%DoD)		
Voltage range	291.2-374.4V		
Operating temperature range	-10℃~50℃ (Temperature is less than 0℃ or more than 40℃, battery performance will decrease)		
Cycles	6000 (Under certain test conditions)		
Size(W*H*D,mm)	580×820×213		
Weight(kg)	110		
Inverters	CSPH 3600	CSPH 5000	CSPH 6000
PV Parameters			
Max. PV input power	9000W		
Max. PV input voltage	580Vdc		
MPPT voltage range	100Vdc~550Vdc		
Max input current	15Adc×2		
On-grid Parameters			
Rated output power	3600W	5000W	6000W
Rated input power	7200W	10000W	12000W
Rated output voltage	220/230/240Vac		
Grid frequency range	50/60Hz		
Rated output current	15.7A	21.7A	26.1A
Rated input current	31.4A	43.4A	52.2A
Power factor	>0.99		
Max efficiency	97.70%		
Europe efficiency	97.10%		
THDi	<3% (rated power)		
Back up Parameters			
Rated output voltage	220/230/240Vac		
Rated output frequency	50/60Hz		
Rated output power	3600W	5000W	6000W
Max output power	4680W 1min	6500W 1min	7800W 1min
Transfer time	<10ms		
Voltage harmonic	<2% (rated power)		
Charge-Discharge Parameters			
Rated charging voltage	85Vdc~450Vdc		
Max charging power	3600W	5000W	6000W
Max charging current	32A (settable)		
Max power	5400W	7500W	7800W
System Parameters			
Cooling type	Natural cooling		
IP Rating	IP65		
Noise	<25dB		
Display	LED/APP		
Relative humidity	0~100%, non condensation		
Operating temperature range	-25℃~ +60℃		
Altitude	3000m		
Standard	VDE0126-1-1, VDE-AR-N4105 , AS4777.2/3, CEI 0-21, IEC62109-1, IEC62109-2, AS62040-1-1, EN61000-6-3, EN61000-6-2		
Communication	RS485, WiFi, Meter		

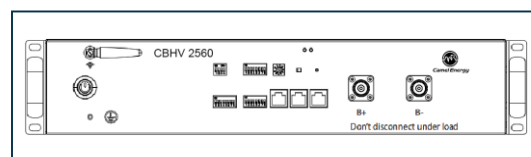
Energy Storage High-voltage Lithium Battery Pack

---- CBHV 2560



Key Features

- Assembly freely in series up to 4S
- High energy efficiency (charge and discharge) > 97%
- High rate charge & discharge
- More safety dual hardware & triple software protection
- Safe and reliable BMS relay design instead of mosfet
- LFP cell is used, high reliability, long life and cycle life>6000 times
- High reliability key devices (relay, fuse) approved by UL and IEC
- More smart with digital monitor system App with WIFI
- Smart design & easy installation plug in & off
- More quiet without fan, more quiet and reduce the risk of fan failure



CBHV 2560

---- Technical Specifications

Model		CBHV 2560
Total Energy*		2.56kWh
Usable Energy(DC) *		2.2kWh
Nominal Dis- / Charge Power		1.5kW
Peak Power(Only Discharge)		3kW for 3s
Constant Current(Only Discharge)		20A
Voltage		96~112Vd.c
Nominal Voltage		102.4Vd.c
Nominal Current		15A
Max. Charge Voltage		115.2Vd.c
Weight(kg)		27
Size(W*H*D,mm)		442*88*500
Max. recommended DOD		90%
Operating Condition		Indoor
Operating Temperature	Charge	From 0~50℃
	Discharge	From -10~55℃
WIFI Frequency Range		2400MHz~2483MHz
Humidity		< 60%(No condensed water)
Over Voltage Category		II
Cooling Type		Natural cooling
Case Material		Metal
Color		Black or White
Installation		Wall mounting/ Ground Installation
IP Rating		IP 20
Protective Class		I
Max. Connection Number		4S
Warranty		5 years
Life Span		>15 years
Communication		CAN/RS485
Protection Mode		Dual hardware protection
Battery Protection		Over- current/ Over- voltage/ Short circuit/ Under- voltage/ Over temperature
Safety	Cell UL 1973	Cell TUV
	CE/TUV	
Hazardous Material Classification		9
Transportation		UN 38.3

Testing conditions based on temperature 25℃ at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from CBHV 0.2C CC-CV

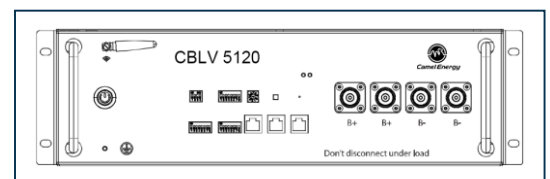
Energy Storage Lithium Battery Pack

---- CBLV 5120



Key Features

- Assembly freely in series or parallel up to 8S4P (409.6V 326.4kWh)
- High energy efficiency (charge and discharge) > 97%
- High rate charge & discharge max charge current 60A, Max discharge current 80A
- More safety dual hardware & Triple software protection
- Safe and reliable BMS relay design instead of mosfet
- LFP cell is used, high reliability, long life and cycle life>6000 times
- High reliability key devices (relay,fuse) approved by UL and IEC
- More smart with digital monitor system App with WIFI
- Smart design & Easy installation plug in & off
- More quiet without fan,more quiet and reduce the risk of fan failure



CBLV 5120

---- Technical Specifications

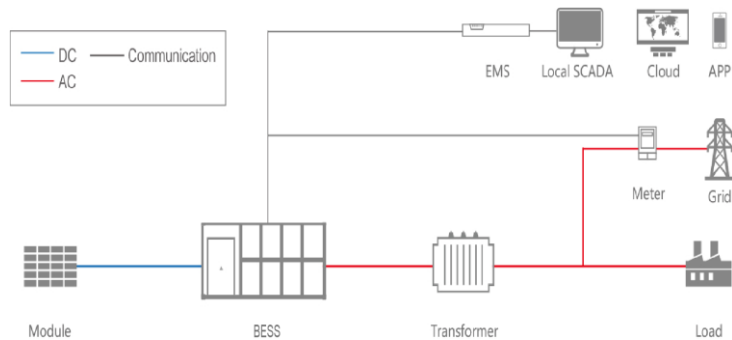
Model		CBLV 5120
Total Energy*		5.1kWh
Usable Energy(DC) *		4.8kWh
Nominal Dis- / Charge Power		3.0kW
Peak Power(Only Discharge)		6kW for 3s
Constant Current(Only Discharge)		80A
Voltage		48~56Vd.c
Nominal Voltage		51.2Vd.c
Nominal Current		60A
Max. Charge Voltage		57.6Vd.c
Weight(kg)		45
Size(W*H*D,mm)		442*135*500
Max. recommended DOD		90%
Operating Condition		Indoor
Operating Temperature	Charge	From 0 ~ 50 °C
	Discharge	From -10~55 °C
WIFI Frequency Range		2400MHz~2483MHz
Humidity		< 60% (No condensed water)
Over Voltage Category		II
Cooling Type		Natural cooling
Case Material		Metal
Color		Black or White
Installation		Wall mounting/ Ground Installation
IP Rating		IP 20
Protective Class		I
Max. Connection Number		8S/4P
Warranty		5 years
Life Span		>15 years
Communication		CAN/RS485
Protection Mode		Dual hardware protection
Battery Protection		Over- current/ Over- voltage/ Short circuit/ Under- voltage/ Over temperature
Safety	Cell UL 1973	Cell TUV
	CE/TUV	
Hazardous Material Classification		9
Transportation		UN 38.3

Testing conditions based on temperature 25°C at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from CBLV 0.2C CC-CV

All-in-one Small Industrial and Commercial Energy Storage Solutions

---- Camel BESS



Key Features

- Modular and flexibly expandable battery storage system at the power and capacity level
- All-in-one design, AC-coupled solution
- Individual energy content-perfectly according to your requirements
- Lithium iron phosphate batteries for high operational & fire safety
- Outdoor housing for any installation site
- Easy maintenance due to modular design(Battery modules, BMS, control design)
- Internal and external protection
- Suitable for series application such as control reserve, self-consumption increase
- 15 years design life, Stable performance, Maintenance-free

Camel BESS

---- Technical Specifications

Type	Storage	Solar + Storage
Cell Type	LFP	
Battery Capacity	50kWh~200kWh	50kWh~200kWh
Voltage Range(V)	250~850	320~850
Max. Charging Power(kW)	50~150	30~100
AC On-grid Parameter		
Grid Type	3W+N+PE	
Rated Charge/Discharge Power	50~150kW	50kW
Rated Grid Voltage	AC320V~460V	
Applicable Grid Frequency	45~55Hz/55~65Hz	
THDi	<3%	
Power Factor	1(Leading)~1(Lagging)	
AC Off-grid Parameter		
Rated Charge/Discharge Power	50~150kW	50kW
Max Output Power	50~150KVA	55KVA
Rated Grid Voltage	AC400V	
Rated Frequency	50/60Hz	
THDu	≤1% linear; or≤5% nonlinear	
Photovoltaic Input		
Max Input Power	--	50/100kW
MPPT Voltage Range	--	250~850V
General Parameter		
Size(W*H*D,mm)	2200*1100*2340	
Max. Weight(kg)	3200	
IP Rating	IP54	
Operating Temperature Range	-20~50°C	
Relative Humidity	0~95%(No condensation)	
Attitude	<2000m	
Cooling Method	Heat Ventilation Air Conditioner	
Noise	≤75dB	
System Efficiency	≥85%	
Firefighting System	Intetared	
Communication	Ethernet, Modbus TCP/IP	

Global Service Network



Camel Energy Technology focuses on the development of globalization, follows the pace of the development of science and technology, deploys the global lithium battery energy storage market, and is committed to becoming the world's leading supplier of clean energy system solutions. Camel energy storage products are exported to North America, Europe, Australia, Southeast Asia and other countries and regions.



To Be The World's Leading Clean Energy Service Provider

 No. 125, Keji Second Rd., Zuoling Street, East Lake New
Technology Development Zone, Wuhan, Hubei, China

 <https://www.camelbatt.com>

 Camel@chinacamel.com

 430074

 0086-027-52108948