Camel Energy

RESIDENTIAL ENERGY STORAGE PRODUCT BROCHURE

ULECTRIC TECHNOLOGY CO., LTD.

To Be The World's Leading Clean Energy Service Provider

DIRECTORY

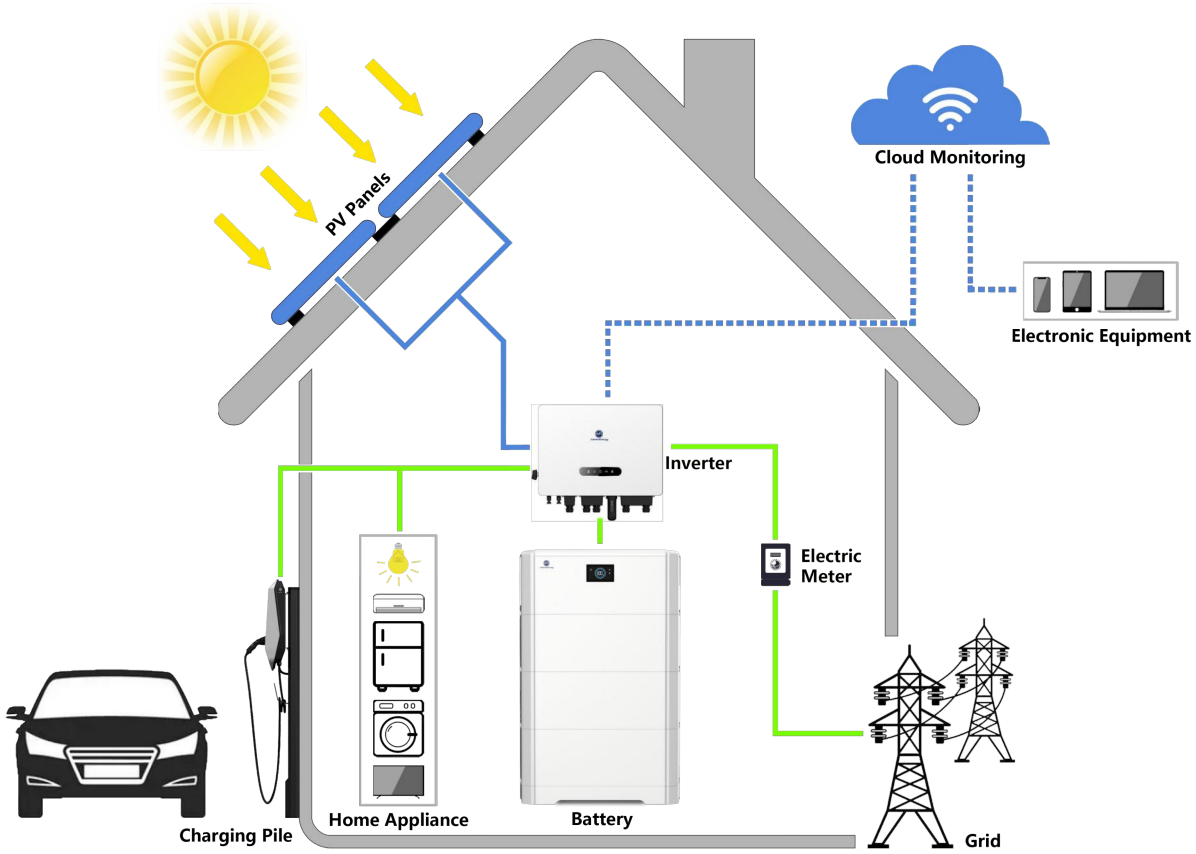
About Ulectric Technology

Ulectric Technology Co., Ltd., is a lithium-ion energy storage system integration and application technology as the core, focusing on residential energy storage, commercial & industrial energy storage, portable power station, multipurpose lithium-ion battery, golf cart lithium-ion battery, multifuntional car jump starter, as well as integrated energy services business research and development and production enterprises, the company ploughs into the application of zero-carbon clean energy systems, is committed to becoming the world's leading provider of clean energy solutions.

Ulectric Technology has mastered a number of core patented technologies in BMS R&D, system integration, digital cloud platform and other technical fields, and has the strength in technology R&D, production and application of the whole industrial chain of energy storage battery system.

The product provides a green, safe, intelligent and stable new electricity use experience for individuals and family users under the circumstances of solar power generation storage, vehicle power use, emergency power backup, remote power shortage, etc.

Residential Energy Storage System



Self-Consumption

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

Power Backup

During a power failure, our system serves as a reliable backup power source to ensure an uninterrupted power supply for users

Peak Shaving and Valley Filling

Our system makes it easy to schedule charging and discharging periods based on fluctuating electricity tariffs;

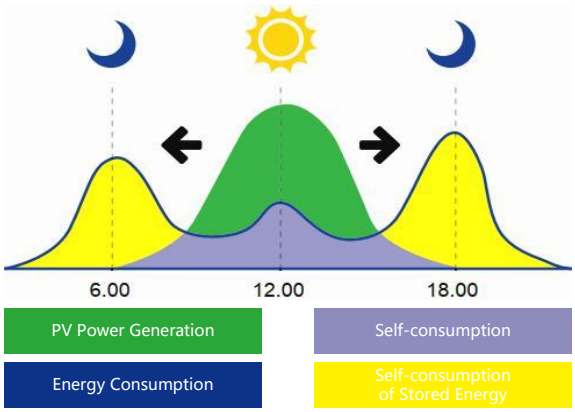
Energy can be stored during off-peak periods and used or sold back to the grid during peak hours, allowing you to benefit from the tariff difference

Intelligent Management

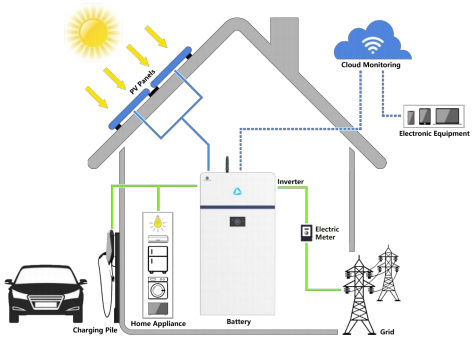
Our app puts the system at your fingertips, providing you with a platform to track and analyze your energy supply and demand on your smartphone or tablet

Energy Connectivity

Our system enables real-time remote energy scheduling. It connects to a virtual power plant (VPP) to facilitate the sharing of energy resources among community members



All-In-One Single-Phase Residential Energy Storage System
Camel Intel 10 (Single-Phase)



	Inverter Power		
	3.6kW	5kW	6kW
	Battery capacity: 10 kWh (expandable to 40 kWh)		

High Safety

LiFePO4 batteries ensure minimum safety risks

Cost-Effectiveness

All-in-one design allows lower cost and higher efficiency

Intelligent Monitoring

Device information can be monitored in real time via the app, that manages power output intelligently and efficiently

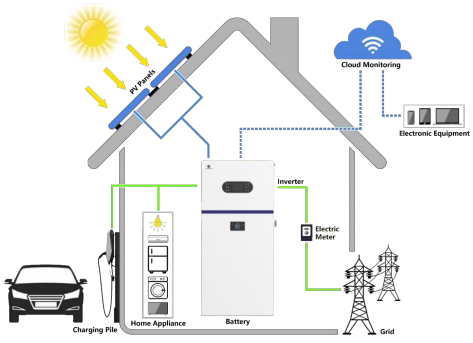
Flexible Configuration

Our ESS enables PV charging, load matching, remote energy scheduling, and provides an emergency power supply (off-grid)

Technical Specifications

Model	Camel Intel 10-3600	Camel Intel 10-5000	Camel Intel 10-6000
System Parameters			
Rated Output Power/EPS Power (W)	3600/3600	5000/5000	6000/6000
AC Output Voltage (Vac)	230V，L/N/PE		
Frequency (Hz)	50/60		
Battery Capacity (kWh)	10 (Expandable to 40 kWh)		
Protection Level	IP55		
Operating Temperature	Charge: 0~55°C; Discharge: -20~60°C		
Storage Temperature	-10°C~35°C		
Noise (dB)	<25		
Weight (kg)	129		
Dimension (W*H*D, mm)	580*1100*230		
Warranty	5 years (Extendable to 10 years)		
Inverter Parameters			
Model		**CSPH 3600**	**CSPH 5000**	**CSPH 6000**
PV Input	Max. PV Input Power (W)	9000		
	Max. PV Input Voltage (Vdc)	580		
	MPPT Voltage Range (Vdc)	100~550		
	Max. PV Input Current (Adc)	15*2		
	Number of MPPTs	2		
AC Output	Rated Output Power (W)	3600	5000	6000
	Rated Output Voltage (Vac)	230		
	Rated Output Current (A)	15.7	21.7	26.1
	Power Factor	0.8 Leading~0.8 Lagging		
Backup Output	Max. Output Power (W)	4680 (1 min)	6500 (1 min)	7800 (1 min)
	Transfer Time (ms)	<10		
General	Max. Efficiency	97.70%		
	European Efficiency	97.10%		
	Weight (kg)	19		
	Dimension (W*H*D, mm)	580*280*230		
	Certification	DIN V VDE V 0126-1-1/A1，VDE-AR-N4105，CEI 0-21，IEC62109-1，IEC62109-2，EN61000-6-3，EN61000-6-2，EN50549		
Battery Parameters			
Battery Type	LiFePO4		
Battery Capacity (kWh)	10		
Rated Voltage (Vdc)	332.8		
Voltage Range (Vdc)	291.2~374.4		
Max. Charge/Discharge Current (A)	20/20		
Max. Number of Parallel Connections	4		
Weight (kg)	110		
Dimension (W*H*D, mm)	580*820*213		
Certification	CE/IEC 62619/UN 38.3/IEC 62040		

All-In-One Three-Phase Residential Energy Storage System
Camel Intel 10 (Three-Phase)



	Inverter Power					
	4kW	5kW	6kW	8kW	10kW	12kW
	Battery capacity: 10 kWh (expandable to 40 kWh)					

High Safety

LiFePO4 batteries ensure minimum safety risks

Cost-Effectiveness

All-in-one design allows lower cost and higher efficiency

Intelligent Monitoring

Our ESS is equipped with a smart LCD, Device information can be monitored in real time via the app that manages power output intelligently and efficiently

Flexible Configuration

Our ESS enables PV charging, load matching, remote energy scheduling, and provides an emergency power supply (off-grid)

Technical Specifications

Model	Camel Intel 10-4000T	Camel Intel 10-5000T	Camel Intel 10-6000T	Camel Intel 10-8000T	Camel Intel 10-10000T	Camel Intel 10-12000T
System Parameters						
Rated Output Power/EPS Power (W)	4000/4000	5000/5000	6000/6000	8000/8000	10000/10000	12000/10000
AC Output Voltage (Vac)	400/380V，3W/N/PE					
Frequency (Hz)	50/60					
Battery Capacity (kWh)	10 (Expandable to 40 kWh)					
Protection Level	IP55					
Operating Temperature	Charge: 0~55°C; Discharge: -20~60°C					
Storage Temperature	-10°C~35°C					
Noise (dB)	<35					
Weight (kg)	140.6					
Dimension (W*H*D, mm)	580*1245*213					
Warranty	5 years (Extendable to 10 years)					
Inverter Parameters						
Model		**CPH4K**	**CPH5K**	**CPH6K**	**CPH8K**	**CPH10K**	**CPH12K**
PV Input	Max. PV Input Power (W)	6000	7000	9000	12000	15000	15000
	Max. PV Input Voltage (Vdc)	1000					
	MPPT Voltage Range (Vdc)	200~850					
	Max. PV Input Current (Adc)	13*2					
	Max. Short Circuit Current (Adc)	20*2					
	Number of MPPTs	2					
AC Output	Rated Output Power (W)	4000	5000	6000	8000	10000	12000
	Rated Output Voltage (Vac)	400/380					
	Rated Output Current (A)	6	7.6	9.1	12.2	15.2	18.2
	Power Factor	0.8 Leading~0.8 Lagging					
Backup Output	Max. Output Power (W)	4000	5000	6000	8000	10000	10000
	Transfer Time (ms)	<10					
General	Max. Efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
	European Efficiency	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
	Weight (kg)	30.6					
	Dimension (W*H*D, mm)	580*425*213					
	Certification	VDE-AR-N4105，IEC61727，IEC62116，VDE0124-AR-N0124，EN50549，IEC62109，IEC62477					
Battery Parameters							
Battery Type	LiFePO4					
Battery Capacity (kWh)	10					
Rated Voltage (Vdc)	332.8					
Voltage Range (Vdc)	291.2~374.4					
Max. Charge/Discharge Current (A)	20/20					
Max. Number of Parallel Connections	4					
Weight (kg)	110					
Dimension (W*H*D, mm)	580*820*213					
Certification	CE/IEC 62619/UN 38.3/IEC 62040					

HV Stackable Residential Energy Storage Battery Pack
Camel HESB1

Main Features

- Lower users' electricity bills through self-consumption
- Balance the power load through peak shaving and valley filling
- Emergency backup power in case of power failures
- Absorb new energy to ease the pressure on grid regulation

Flexible Configuration
Capacity options from 15 to 25 kWh

Perfect Compatibility
Compatible with popular inverters

Intelligent Monitoring
Monitor battery status in real time on the app

Easy Installation
Stack and play

Easy installation by 1-2 persons

Technical Specifications

Model	Camel HESB1-15	Camel HESB1-20	Camel HESB1-25
Number of Batteries	3	4	5
Rated Capacity (kWh)	15.36	20.48	25.6
Rated Voltage (V)	153.6	204.8	256
Voltage Range (V)	134.4~172.8	179.2~230.4	224~288
Rated Charge/Discharge Current (A)	52.5/52.5		
Communication Interface	CAN/RS485		
Protection Features	Charging over voltage protection, Discharging under voltage protection, Over current protection, Over temperature protection, Low temperature protection, Short circuit protection, etc.		
Protection Level	IP55		
Operating Altitude	≤2000m (Rated power will decrease at an altitude of above 2000m)		
Operating Temperature	Charge: 0~55°C; Discharge: -20~60°C		
Storage Temperature	-10°C~35°C		
Relative Humidity	5%~90%, Non-condensation		
Weight (kg)	146.5	189	231.5
Dimension (W*H*D, mm)	720*1110*220	720*1360*220	720*1610*220
Warranty	5 years (Extendable to 10 years)		
Certification	CE/IEC 62619/IEC 62040		
Transport Standard	UN38.3		

All-In-One Off-Grid LV Residential Energy Storage System
Camel AOLES-3KW/Camel AOLES-5KW

Main Features

Camel all-in-one off-grid low-voltage residential energy storage system is specially designed for home use. Our innovative four-in-one design brings unprecedented convenience, integrating solar controller (built-in MPPT controller), Lithium batteries, battery management system(BMS) and solar inverter together. When the grid experiences load shedding or a power outage, the system can continue to provide electricity to essential appliances or the entire home.

4 in 1 Design

Solar controller+Lithium batteries +BMS+Solar inverter

Flexible Configuration

Charging model: PV, AC, PV+AC

PV+AC charging

Easy Installation

Wall-mount design makes it quick installation in 10 minutes

Seamless Backup Power

PV+AOLES provide uninterruptible power supply (UPS)

Technical Specifications

Model	Camel AOLES-3KW	Camel AOLES-5KW
Rated Power	3kW	5kW
Battery Type	LiFePO4	
Battery Parameters		
Rated Voltage (Vdc)	25.6	51.2
Rated Capacity (kWh)	2.56	5.12
Input		
Utility Input Voltage (Vac)	170~260	
Utility Frequency Range (Hz)	50~60 (Automatic recognition)	
Solar Charger & AC Charger		
Max. PV Array Power (W)	4000	6000
PV Array Open Circuit Voltage (Vdc)	120~430	120~430
Max. Solar Input Current (A)	15	15
Max. Solar Charge Current (A)	80	80
Max. AC Charge Current (A)	32	32
Max. Charge Current (PV+AC) (A)	80	80
Output		
AC Output Voltage (Vac)	208/220/230/240	
Frequency (Hz)	50/60	
Other		
Overload Alarm	Alarm at 110% load, one minute shutdown at 120% load, 3 seconds shutdown at 150% load. Automatic shutdown when load falls below 8%	
Protection Features	Charging over voltage protection, Discharging under voltage protection, Over current protection, Over temperature protection, Low temperature protection, Short circuit protection, etc.	
Four Working Modes	Utility priority mode, Battery priority mode, Energy-saving mode, RV priority mode	
Fan Control	Intelligent speed control	
Switching Time (ms)	<5	
Protection Level	IP20	
Installation	Wall mounting	
Color	Gun grey (Customizable)	
Operating Temperature	Charge: 0~55°C; Discharge: -20~55°C	
Storage Temperature	-10°C~35°C	
Relative Humidity	10%～95%RH	
Weight (kg)	44	60
Dimension (W*H*D, mm)	460*140*700 (Depth dimensions do not include brackets)	
Warranty	Based on 2 years	
Certification	UN 38.3	

All-In-One LV Stackable Residential Energy Storage System
Camel ALSES

Main Features

- Lower users' electricity bills through self-consumption
- Balance the power load through peak shaving and valley filling
- Emergency backup power in case of power failures
- Absorb new energy to ease the pressure on grid regulation

High Safety

LiFePO4 batteries ensure minimum safety risks

High Scalability

Inverters support parallel operation; Batteries support parallel expansion

Multiple Product Modes

System supports split type and integrated type, provide users with more choices

Flexible Configuration

Our ESS enables PV charging, load matching, remote energy scheduling, and provides an emergency power supply (off-grid)

Technical Specifications

Model		Camel ALSES -3000S	Camel ALSES -3600S	Camel ALSES -4000S	Camel ALSES -5000S	Camel ALSES -6000S
System Parameters						
Rated Output Power/EPS Power (W)		3000/3000	3600/3600	4000/4000	5000/5000	6000/6000
AC Output Voltage (Vac)		220/230/240V, L/N/PE				
Frequency (Hz)		50/60				
Battery Capacity (kWh)		5 (Expandable to 15 kWh)				
Protection Level		IP65 (Inverter)/IP20 (Battery)				
Operating Temperature		Charge: 0~55°C; Discharge: -20~60°C				
Storage Temperature		-10°C~35°C				
Noise (dB)		<25				
Weight (kg)		77 (5kWh) / 125 (10kWh) / 173 (15kWh)				
Dimension (W*H*D, mm)		500*1178*180 (5kWh) / 500*1618*180 (10kWh) / 500*2058*180 (15kWh)				
Warranty		5 years (Extendable to 10 years)				
Inverter Parameters						
Model		**3000S**	**3600S**	**4000S**	**5000S**	**6000S**
PV Input	Max. PV Input Power (W)*	4500	6000	6000	7500	9000
	Max. PV Input Voltage (Vdc)	600				
	MPPT Voltage Range (Vdc)	80~550				
	Max. PV Input Current (Adc)	13*2				
	Number of MPPTs	2				
AC Output	Rated Output Power (W)	3000	3600	4000	5000	6000
	Rated Output Voltage (Vac)	220V/230V/240V, L/N/PE				
	Power Factor	0.8 Leading~0.8 Lagging				
Backup Output	Nominal Output Power (W)	3000	3600	4000	5000	6000
	Nominal Output Current (A)	13.6	16.4	18.2	22.7	27.2
	Transfer Time (ms)	<20				
Battery	Battery Voltage Range (Vdc)	42~58				
	Max. Charging/ Discharging Current (A)	75	85	85	100	100
	Nominal Charging/ Discharging Power (KW)	3	3.6	4	5	5
General	Ingress Protection Rating	IP65				
	Weight (kg)	21				
	Dimension (W*H*D, mm)	500*470*180				
	Certification	IEC 62109-1&2,EN 62109-1&2,EN 61000-6-1&2&3&4, VDE 4105, EN 50549-1, C10/11, G98/G99/G100, CEI 0-21, NRS 097-2-1, UNE 217002				
Battery Parameters						
Battery Capacity (kWh)		5.12				
Rated Voltage (Vdc)		51.2				
Voltage Range (Vdc)		44.8~57.6				
Rated Charge/Discharge Current (A)		50				
Max. Charge/Discharge Current (A)		100				
Weight (kg)		48				
Dimension (W*H*D, mm)		500*440*167				
Certification		CE/IEC 62619/UN 38.3				

LV Wall-Mounted Residential Energy Storage System
Camel 3000S/3600S/4000S/5000S/6000S & CBLV 5120-C

Main Features

- Lower users' electricity bills through self-consumption
- Balance the power load through peak shaving and valley filling
- Emergency backup power in case of power failures
- Absorb new energy to ease the pressure on grid regulation

High Safety

LiFePO4 batteries ensure minimum safety risks

High Scalability

Inverters support parallel operation; Batteries support parallel expansion

Multiple Product Modes

System supports split type and integrated type, provide users with more choices

Flexible Configuration

Our ESS enables PV charging, load matching, remote energy scheduling, and provides an emergency power supply (off-grid)

Technical Specifications

Inverter Model		3000S	3600S	4000S	5000S	6000S
Inverter Parameters						
PV Input	Max. PV Input Power (W)	4500	6000	6000	7500	9000
	Max. PV Input Voltage (Vdc)	600				
	MPPT Voltage Range (Vdc)	80~550				
	Max. PV Input Current (Adc)	13*2				
	Number of MPPTs	2				
AC Output	Rated Output Power (W)	3000	3600	4000	5000	6000
	Rated Output Voltage (Vac)	220V/230V/240V, L/N/PE				
	Power Factor	0.8 Leading~0.8 Lagging				
Backup Output	Nominal Output Power (W)	3000	3600	4000	5000	6000
	Nominal Output Current (A)	13.6	16.4	18.2	22.7	27.2
	Transfer Time (ms)	<20				
Battery	Battery Voltage Range (Vdc)	42~58				
	Max. Charging/ Discharging Current (A)	75	85	85	100	100
	Nominal Charging/ Discharging Power (kW)	3	3.6	4	5	5
General	Ingress Protection Rating	IP65				
	Weight (kg)	21				
	Dimension (W*H*D, mm)	500*470*180				
	Certification	IEC 62109-1&2,EN 62109-1&2,EN 61000-6-1&2&3&4, VDE 4105, EN 50549-1, C10/11, G98/G99/G100, CEI 0-21, NRS 097-2-1, UNE 217002				

Battery Model	CBLV 5120-C
Battery Parameters	
Battery Capacity (kWh)	5.12
Rated Voltage (Vdc)	51.2
Voltage Range (Vdc)	44.8~57.6
Rated Charge/Discharge Current (A)	50
Max. Charge/Discharge Current (A)	100
Communication Interface	CAN/WIFI
Protection Features	Charging over voltage protection, Discharging under voltage protection, Over current protection, Over temperature protection, Low temperature protection, Short circuit protection, etc.
Protection Level	IP20
Operating Condition	Indoor
Installation	Wall mounting
Operating Altitude	≤2000m (Rated power will decrease at an altitude of above 2000m)
Operating Temperature	Charge: 0~55°C; Discharge: -20~60°C
Storage Temperature	-10°C~35°C
Relative Humidity	5%~90%, Non-condensation
Weight (kg)	48
Dimension (W*H*D, mm)	500*440*167
Warranty	5 years (Extendable to 10 years)
Certification	CE/IEC 62619/UN 38.3

LV Cabinet/Rack Residential Energy Storage Battery Pack
Camel LV5200

Main Features

- Lower users' electricity bills through self-consumption
- Balance the power load through peak shaving and valley filling
- Emergency backup power in case of power failures
- Absorb new energy to ease the pressure on grid regulation

Flexible Configuration

Capacity options from 15 to 25 kWh

Perfect Compatibility

Compatible with popular inverters

Intelligent Monitoring

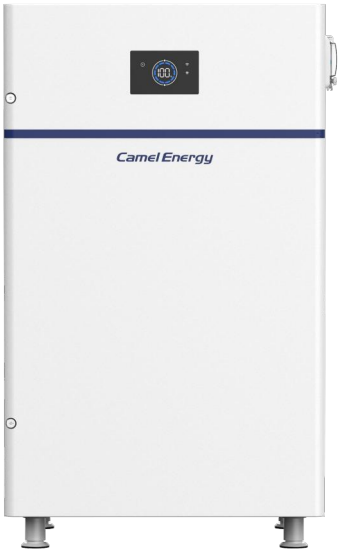
Monitor battery status in real time on the app

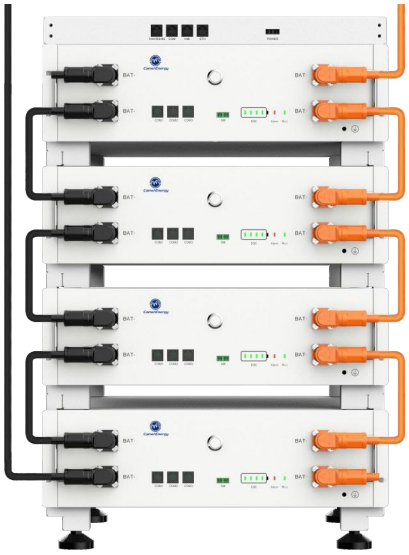
Easy Installation

Stack and play

Easy installation by 1-2 persons

Technical Specifications





Model	Camel LV5200-5	Camel LV5200-10	Camel LV5200-15	Camel LV5200-20
Number of Batteries	1	2	3	4
Rated Capacity (kWh)	5.12	10.24	15.36	20.48
Rated Voltage (V)	51.2			
Voltage Range (V)	44.8~55.2			
Rated Charge/Discharge Current (A)	50	100	150	200
Max. Charge/Discharge Current (A)	100	180	240 (Cabinet) 200 (Rack)	240 (Cabinet) 200 (Rack)
Communication Interface	CAN/RS485/Wi-Fi			
Protection Features	Charging over voltage protection, Discharging under voltage protection, Over current protection, Over temperature protection, Low temperature protection, Short circuit protection, etc.			
Protection Level	IP55 (Cabinet type)/IP20 (Rack type)			
Operating Altitude	≤2000m (Rated power will decrease at an altitude of above 2000m)			
Operating Temperature	Charge: 0~50°C; Discharge: -20~60°C			
Storage Temperature	-10°C~35°C			
Relative Humidity	5%~90%, Non-condensation			
Weight (kg)	45	90	135	180
Dimension (W*H*D, mm)	482.6*135*410/PACK			
	592*964*492/Standard cabinet			
Warranty	5 years (Extendable to 10 years)			
Certification	CE/UL 1973/IEC 62619			
Transport Standard	UN38.3			

LV Energy Storage Lithium-ion Battery Module
CBLV 5120-B/CBLV 7200/CBLV 9600

Main Features

This series product is a powerful Lithium Iron Phosphate (LiFePO4) battery designed to provide backup power for remote or outdoor telecom sites. It has a modular design and can be installed in parallel to meet larger backup power requirements

- Increased energy in given space
- Easy installation and upscaling
- High operational reliability
- Optimized supervision strategy through remote control/diagnostic
- Excellent long life time
- Built-in intelligent BMS to protect the battery pack at any time and prolong its service life

Technical Specifications

Model	CBLV 5120-B	CBLV 7200	CBLV 9600
Rated Capacity (kWh)	5.12	7.2	9.6
Rated Voltage (V)	51.2 (Optional 48V)		
Voltage Range (V)	44.8~57.6		
Rated Charge/Discharge Current (A)	50	50	100
Max. Charge/Discharge Current (A)	100	100	150
Communication Interface	CAN/WIFI (Optional)	CAN/RS485	CAN/RS485
Protection Features	Charging over voltage protection, Discharging under voltage protection, Over current protection, Over temperature protection, Low temperature protection, Short circuit protection, etc.		
Protection Level	IP20		
Operating Condition	Indoor		
Installation	Removable rack mount/19-inch cabinet installation		
Operating Altitude	≤2000m (Rated power will decrease at an altitude of above 2000m)		
Operating Temperature	Charge: 0~55°C; Discharge: -20~60°C		
Storage Temperature	-10°C~35°C		
Relative Humidity	5%~90%, Non-condensation		
Weight (kg)	48	60	76
Dimension (W*H*D, mm)	480*137*460	482*180*488	491*214*500
Warranty	5 years (Extendable to 10 years)		
Certification	CE/IEC 62619		
Transport Standard	UN38.3		
*CBLV 9600 with touch screen			

Small-Scale Commercial & Industrial HV Energy Storage System—Camel ICHES-A

Main Features

- High Safety: Adopts lithium-ion phosphate battery, high safety and reliability
- High Scalability: Single-row maximum support for 12 battery modules in series, and support for multiple rows of batteries connected in parallel
- High Intelligence: Intelligent digital inspection system with WIFI, remote inspection and upgrade
- High Rate: Maximum continuous charging and discharging current 100A
- High Convenience: Quick installation, removable racks, plug and play

Technical Specifications

Model	Camel ICHES-30	Camel ICHES-40	Camel ICHES-50	Camel ICHES-60
System Parameters				
System Capacity (kWh)	30.72	40.96	51.2	61.44
System Usable Capacity (kWh)*	27.64	36.86	40.08	55.29
Number of Batteries	6	8	10	12
System Nominal Voltage (Vdc)	307.2	409.6	512	614.4
System Voltage Ranges (Vdc)	268.8~350.4	358.4~467.2	448~584	537.6~700.8
Charge/discharge Current (A)	50/50 (Recommended)			
Max. Continuous Charge/discharge Current (A)	100/100			
Operating Temperature	Charge: 0~55°C; Discharge: -20~60°C			
Storage Temperature	-10°C~35°C			
Relative Humidity	5%~90%, Non-condensation			
Installation	Removable rack mount			
Protection Level	IP20			
Communication	CAN/RS485/Wi-Fi			
Protection Features	Charging over voltage protection, Discharging under voltage protection, Over current protection, Over temperature protection, Low temperature protection, Short circuit protection, etc.			
Weight (kg)	280	370	460	550
Dimension (W*H*D, mm)	560*1200*460	560*1480*460	560*1760*460	560*2040*460
Warranty	5 years (Extendable to 10 years)			
Certification	CE/IEC 62619			
Transport Standard	UN 38.3			
Battery Module Parameters				
Battery Capacity (kWh)	5.12			
Battery Voltage (Vdc)	51.2			
Weight (kg)	42.7			
Dimension (W*H*D, mm)	450*135*412			
HV Control Box Parameters				
Rated Voltage (Vdc)	1000			
Rated Current (A)	100			
Weight (kg)	13.6			
Dimension (W*H*D, mm)	450*135*410			
*Available energy measured at specific conditions, temperature 25°C, 90% DOD, 0.2C charge/discharge current				

Small-Scale Commercial & Industrial HV Energy Storage System—Camel ICHES-B

Main Features

- High Safety: Adopts lithium-ion phosphate battery, high safety and reliability; Configuration of door-mounted air-conditioning to protect the temperature inside the cabinet; Integrated fire protection system, security Safety
- High Scalability: Single-row maximum support for 12 battery modules in series, and support for multiple rows of batteries connected in parallel; The AC side of the inverter supports multiple parallel machines
- High Intelligence: Intelligent digital inspection system with WIFI, remote inspection and upgrade
- High Convenience: Integration of optical storage and charging in one, modular design, outdoor cabinets for rapid deployment and rapid installation, space saving

Technical Specifications

Model	Camel ICHES-B-3060	Camel ICHES-B-4060	Camel ICHES-B-5060
Battery Parameters			
System Capacity (kWh)		61.44	
Number of Batteries		12	
System Nominal Voltage (Vdc)		614.4	
System Voltage Ranges (Vdc)		537.6~700.8	
Charge/discharge Current (A)		50/50 (Recommended)	
Max. Continuous Charge/discharge Current (A)		100/100	
PV Input Parameters			
Max. PV Input Power (kW)	39	52	65
Starting Voltage (Vdc)		180	
Max. PV Input Voltage (Vdc)		1000	
MPPT Voltage Range (Vdc)		150~850	
Number of MPPTs/ Max. Number of Parallel Groups		4/2	
AC Output Parameters			
Rated Output Power (kW)	30	40	50
Max. Output Power (kW)	33	44	55
Rated Output Current (A)	45.5/43.5	60.7/58	75.8/72.5
Output Voltage (Vac)		380/400V，3W/N/PE	
Frequency (Hz)		50/60	
THDi		≤3%	
Power Factor		0.8 Leading~0.8 Lagging	
System Parameters			
Weight (kg)		850	
Dimension (W*H*D, mm)		1050*2250*750（Inverter not included）	
Warranty		5 years (Extendable to 10 years)	
Protection Level		IP55	
Temperature Control System		DC air conditioner	
Fire Protection System		Smoke detectors, Temperature detectors, Type S aerosol fire extinguishers	
Storage Temperature		-10°C~35°C	
Relative Humidity		5%~90%, Non-condensation	
Certification		IEC 62619/UN 38.3/CE/VDE-AR-N 4105/EN 50549/NRS 097	

Air-Cooling Energy Storage Battery Cabinet
Camel L280BA02-1P240S

Main Features

- High Safety: Adopts lithium-ion phosphate battery, high safety and reliability; Configuration of door-mounted air-conditioning to protect the temperature inside the cabinet; Integrated fire protection system, security Safety
- High Scalability: Supports parallel expansion of multiple cabinets
- High Intelligence: Equipped with intelligent EMS platform, real-time detection of operating data in the cabinet
- High Convenience: Outdoor cabinets for rapid deployment and rapid installation, strong ability to adapt to environment

Technical Specifications

Model	Camel L280BA02-1P240S
DC Side Parameters	
Nominal Energy (kWh)	215.04
Configuration	1P240S
Nominal Capacity (Ah)	280
System Nominal Voltage (Vdc)	768
System Voltage Ranges (Vdc)	600~876
Maximum Charging Current (A)	180
Nominal Current (A)	140
SOC Available Range	5%~95%
Nominal Charge-Discharge Rate	0.5CP/0.5CP
AC Side Parameters	
Nominal Output Power (kW)	100
Nominal Grid Voltage (Vac)	400 (3P4W)
Nominal Power Grid Frequency (Hz)	50/60
Grid Voltage Range (Vac)	360~440
Maximum AC Current (A)	160
Nominal AC Current (A)	144
THDi (Grid-Connected)	≤3% (At nominal power)
THDu (Off-Grid)	≤1% (Linear load)
Power Factor	-0.99~0.99
System Parameters	
Cabinet & Distribution Cabinet Dimension (W*H*D, mm)	1360*2238*1313 1048*2238*1313
Weight (kg)	2260
Corrosion Protection Level	C3
Operating Temperature Range	-30°C~55°C
Operating Altitude	≤2000m (Rated power will decrease at an altitude of above 2000m)
Thermal Management Mode	Forced air cooling
Fire Protection System	Aerosol
Communication	Ethernet

Liquid-Cooling Energy Storage Outdoor Cabinet
Camel L280BA02-1P260S

Main Features

- High Safety: Adopts lithium-ion phosphate battery, high safety and reliability; Configuration of door-mounted air-conditioning to protect the temperature inside the cabinet; Integrated fire protection system, security Safety
- High Scalability: Supports parallel expansion of multiple cabinets
- High Intelligence: Equipped with intelligent EMS platform, real-time detection of operating data in the cabinet
- High Convenience: Outdoor cabinets for rapid deployment and rapid installation, strong ability to adapt to environment

Technical Specifications

Model	Camel L280BA02-1P260S
DC Side Parameters	
Nominal Energy (kWh)	232.96
Configuration	1P260S
Nominal Capacity (Ah)	280
System Nominal Voltage (Vdc)	832
System Voltage Ranges (Vdc)	728~936
Maximum Charging Current (A)	180
Nominal current (A)	140
SOC Available Range	5%~95%
Nominal charge-discharge rate	0.5CP/0.5CP
AC side Parameters	
Nominal Output Power (kW)	100
Nominal Grid Voltage (Vac)	400 (3P4W)
Nominal Power Grid Frequency (Hz)	50/60
Grid Voltage Range (Vac)	360~440
Maximum AC Current (A)	160
Nominal AC Current (A)	144
THDi (Grid-Connected)	≤3% (At nominal power)
THDu (Off-Grid)	≤3% (Linear load)
Power Factor	-0.99~0.99
System Parameters	
Cabinet Dimension (W*H*D, mm)	952*2500*1300
Weight (kg)	2400
Corrosion Protection Level	C3
Operating Temperature Range	-30°C~55°C
Operating Altitude	≤2000m (Rated power will decrease at an altitude of above 2000m)
Thermal Management Mode	Liquid cooling
Fire Protection System	Aerosol
Communication	Ethernet

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