Euroka Energy Storage System 200KWH 645VDC 380-440VAC

LBE-ESS200KWH

More Energy

Simple O & M

Safe & Reliable

INTRODUCTIONS

Our innovative product enhances energy storage systems with a 15% increase in discharge energy through optimised configurations. Simplified operations and maintenance reduce costs, eliminating the need for periodic balancing or expert maintenance. With a modular design and predictive maintenance powered by artificial intelligence, our solution prioritises safety, reliability, and scalability for an efficient energy storage experience.

FEATURES

- **More Energy:** Increase discharge energy by 15% through optimized pack and rack-level configurations
- **Simple O&M:** Reduce costs per year with simplified operations and maintenance, eliminating the need for periodic balancing and expert maintenance.
- **Safe & Reliable**: Ensure safety and reliability with a modular design and utilize artificial intelligence for predictive maintenance

SCENARIOS

- Enterprise telecom scenario

Energy Storage System Parameters	
Battery Configuration	12S1P
Maximum Battery Capacity of the Energy Storage System	193.5 kWh
Rated Power	100 kW
Dimensions (W x H x D), including DC/DC and PCS	2570mm x 2135mm x 1200mm
Dimensions (W x H x D)	1810mm x 2135mm x 1200mm
Weight (including the Battery Module)	≤ 2950kg
Weight (without the Battery Module)	≤ 1070kg
Operating Temperature Range	-30°C ~ 55°C
Storage Temperature Range	-40°C ~ 60°C
Operating Humidity Range	0 ~ 100% (Non-Condensing)
Maximum Operating Altitude	4,000m
Installation Environment Requirement	Outdoor Installation
Battery Temperature Control Mode	Industrial-Grade Air Conditioner
Fire Suppression of Energy Storage System	YES
Auxiliary Power Supply	220Vac <=4.2kVA
Communication Port	Ethernet / SFP
Communication Protocol	Modbus TCP
Protection Degree	IP55
Emc Protection Rating	Class A
DC Lightning Protection	Type II
Standards	
Environment	RoHS6
Certification Standards	GBT 36276-2018 IEC62619; UL9540A;UN38.3

Battery Pack & Smart Rack Controller

Battery Pack	
General	
Cell Material	LFP
Rated Voltage	57.6 V
Nominal Capacity	16.13kWh
Supported Charge & Discharge Rate	≤ 0.5 C
Weight	≤ 140kg
Dimensions (W x H x D)	442 x 308 x 660mm

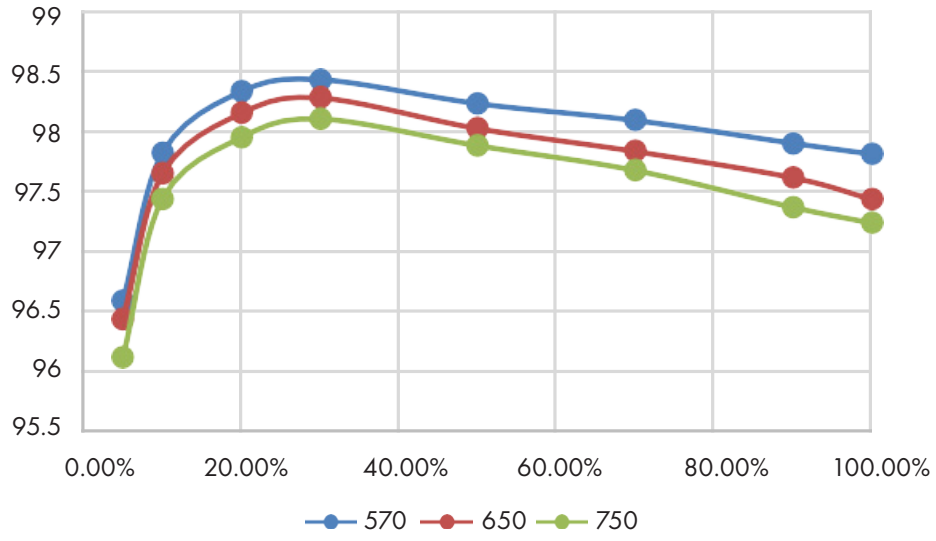
Smart Rack Controller	
Efficiency	
Max. Efficiency	≥ 98.5.0%
Battery Side	
Rated Voltage	691.2@280Ah
Operating Voltage Range	40 V ~ 1,050 V
Min. Start Voltage	350 V
Bus Side	
Max. DC Voltage	1,100 V
Rated Voltage	665 V
Rated Current	76.3 A
General	
Dimensions (W x H x D)	600 x 270 x 820mm
Weight	≤ 90kg
Cooling Method	Smart Air Cooling
Protection Degree	IP66

L2000-100KTL-M1

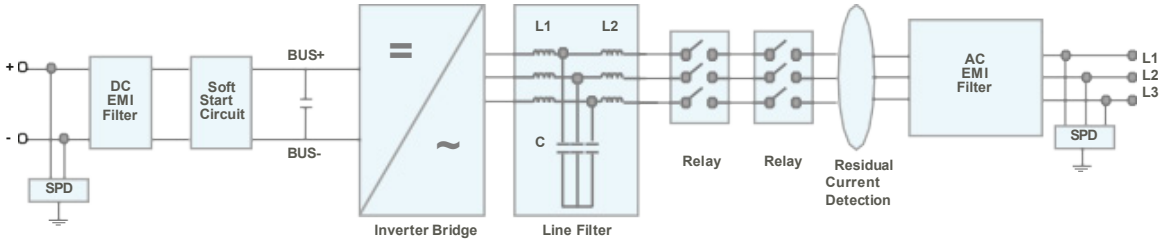
- Surge Arresters for DC & AC
- Modular Design
- IP66 Protection
- Ethernet Communication
- Smart Grid Algorithm

EFFICIENCY CURVE

Efficiency



CIRCUIT DIAGRAM



L2000-100KTL-M1

TECHNICAL SPECIFICATIONS

LBE-ESS200KWH	
Efficiency	
Max. Efficiency	98.4%
DC Side	
Rated DC Voltage	645 V
Max. DC Voltage	1,100 V
Operating DC Voltage Range	570 V ~ 1100 V
Max. DC Current	215.8 A
Max. Number of Inputs	1
AC Side	
Rated AC Active Power	100,000 W @40°C
Rated AC Voltage	380 Vac / 400 Vac / 440 Vac
Rated AC Grid Frequency	50 Hz / 60 Hz
Max. AC Current	173.2 A
Adjustable Power Factor Range	-1 ... +1
Max. Total Harmonic Distortion	<3%
Protection	
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
Insulation Resistance Detection	Yes
Residual Current Protection	Yes
DC Surge Protection	Type II
AC Surge Protection	Type II
Communication	
Display	LED Indicators, WLAN + APP
Networking Mode	Ethernet CAN
General	
Dimensions (W x H x D)	875 x 820 x 365mm
Weight	< 95kg
Operating Temperature Range	-25°C ~ 60°C (Derating above 40°C)
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000m
Relative Humidity	0 ~ 100%
DC Connector	OT/DT Terminal
AC Connector	OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless

General Disclaimer

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