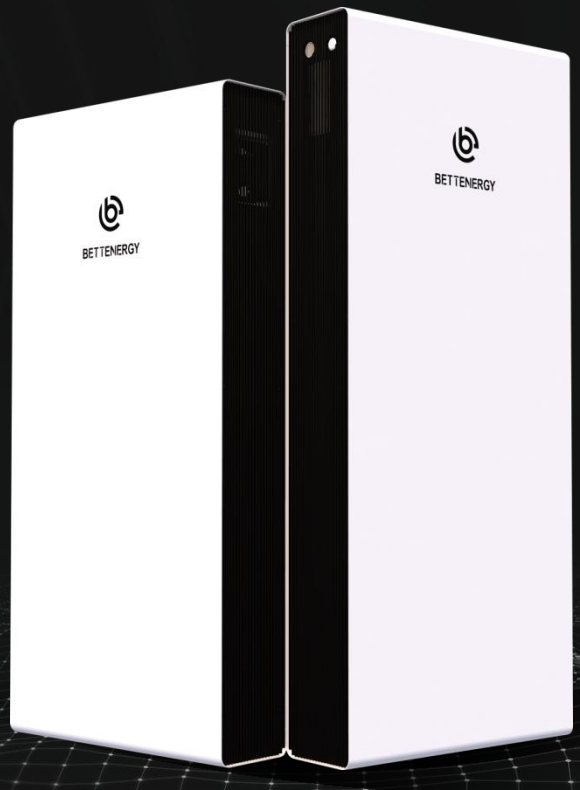
BETTENERGY

POWERING FUTURE WITH BETTER ENERGY

NEW

High and low voltage
household energy storage lithium batteries

FULLY AUTOMATIC THERMAL MANAGEMENT SERIES



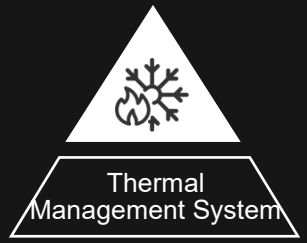
CONTENTS

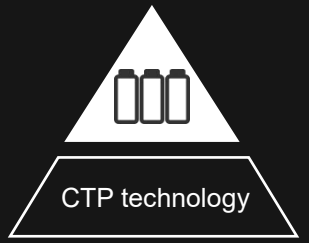
PRODUCT OVERVIEW

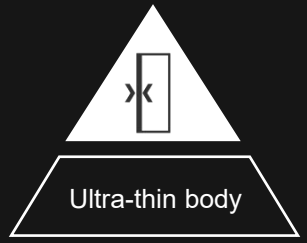
01

ELEBOX-HVT SERIES •

The ELEBOX-HVT series household lithium batteries adopt a fully automatic thermal management system, CTP no-module technology, high-efficiency heat pump heating technology, and aluminum alloy body design, which will expand the working temperature range of the battery, increase the consistency between battery cells, and achieve a more flexible appearance design. This will achieve a new generation of household energy storage lithium batteries with safer, more exquisite, and longer service life.



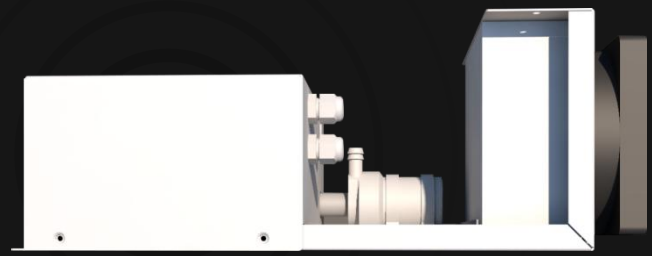




THERMAL MANAGEMENT SYSTEM

- Fully automated thermal management system

BETTENERGY's self-developed lithium battery thermal management system (BTMS) is mainly a lithium battery temperature control technology system that uses circulating liquid as the medium for heat exchange.

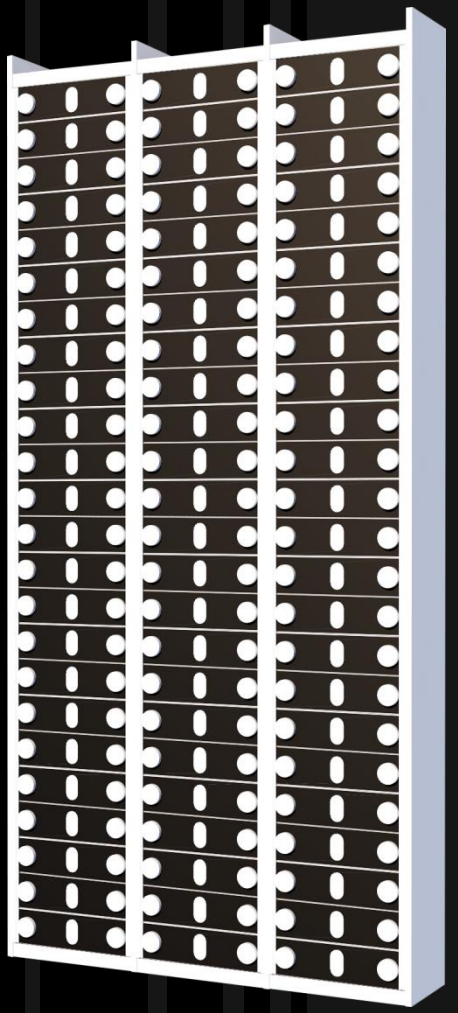


1. Equipped with dual functions of heating at low temperature and cooling at high temperature, the working environment of the battery is expanded to -20 ℃ to 60 ℃.
2. Accurately control all battery cells to operate at the optimal operating temperature of 10 ℃ -35 ℃ at all times.
3. The temperature difference between battery cells is accurately controlled within 2 ℃.
4. Advanced and efficient heat pump heating technology, with a heating efficiency three times that of traditional PTC electric heating films, achieving ultra-low energy consumption.
5. Independently developed silicone foam insulation technology reduces internal open space, has high temperature control efficiency and good effect, reduces losses, and is safe and efficient.

CTP TECHNOLOGY

- CTP TECHNOLOGY

The CTP technology (Cell To Pack) of BETTENERGY household energy storage lithium batteries directly integrates the battery cells into a battery pack, subtracting the module link, forming a non module form, which improves the overall energy density. The battery thickness is only 18cm, significantly reducing the volume and failure rate compared to domestic high-voltage stacked lithium battery products on the market, greatly improving safety, and having no wiring harness and connector connections between modules, making the structure simpler, Installation is extremely convenient, while also reducing the weight of the battery pack.



PRODUCT SPECIFICATION

04

- ELESHELL-T SERIES LITHIUM

- SPEC CHART

Model	ELESHELL-14K-T
Battery Type	LiFePO4
Standard voltage	51.2Vdc
Voltage range	46.4~57.6Vdc
Cell capacity	280Ah
BAT capacity	14.33kWh
DOD	Max. 100 % DOD (settable)
Cycle life（25℃，0.5C/0.5C,80%DOD）	>10000
Rated power	10000W
Max Charge/Discharge current	200A
Dimension (H*W*D)	1169.5*640*196mm
Weight	137.5kg
BAT Operating ambient temperature	-20~60℃
Cell Continuous Operating Temperature	10~35℃
Humidity	0~95%RH (Non-condensing)
Thermal management Type	Liquid Cooling/Heating
Display	LED+App
Communication	RS485, CAN
Installation	Floor mounted & Fixed to wall
IP Grade	IP65
Certification	CE,ROHS,MSDS, IEC 62619, UN 38.3,CE-EMC

- ELEBOX-HVT SERIES LITHIUM BATTERY

- SPEC CHART

Model	ELEBOX-9K-HVT	ELEBOX-11K-HVT	ELEBOX-13K-HVT
Battery Type	LiFePO4		
Standard voltage	192Vdc	230.4Vdc	259.2Vdc
Voltage range	174~216Vdc	208.8~259.2Vdc	234.9~291.6Vdc
Cell capacity	50Ah		
BAT capacity	9.6kWh	11.52kWh	12.96kWh
DOD	Max. 100 % DOD (settable)		
Cycle life（25℃，0.5C/0.5C,80%DOD）	>8000		
Rated power	6500W	8000W	9000W
Max Charge/Discharge current	50A		
Dimension (H*W*D)	1196*640*197mm	1356*640*197mm	1475.5*640*197mm
Weight	113.5kg	130kg	145kg
BAT Operating ambient temperature	-20~60℃		
Cell Continuous Operating Temperature	10~35℃		
Humidity	0~95%RH (Non-condensing)		
Thermal management Type	Liquid Cooling/Heating		
Display	LED+App		
Communication	RS485, CAN		
Installation	Floor mounted & Fixed to wall		
IP Grade	IP65		
Certification	CE,ROHS,MSDS, IEC 62619, UN 38.3,CE-EMC		

- CONTACT US

BETTENERGY

400-678-6679

sales@bettenergy.com

www.bettenergy.com

4th Floor, Building 2, Intelligent Manufacturing Industrial Park, Gongye South Road, Ninghua County, Sanming City, Fujian Province, China