



**Wise Energy Technologies**

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## **LTO High Voltage Stackable Energy Storage Battery**

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### **WE-LTO HV Series**

**4~24kWh | 110V~660V | Match with 10~30kW**

### **High Voltage Three Phase Inverters**

Wise Energy LTO HV series batterie is anlifetime solution for Large residential or small commercial and industrial applications. Match with powerful high voltage three phase inverters such as goodwe ET Series to integrate to a powerful system facilitate powerful energy backup and load management for optimized autonomy and reduced energy cost. Peak shaving that balances power demand and grid power imported, to effectively reduce extra grid demand. Dry contact in the inverter, external loads such as heat pumps can also be flexibly activated to optimize energy consumption.



## **1. Features**



### **25,000 Cycle Life**

Wise Energy LTO Battery gives the highest battery cycle life in the market. Your battery will be an investment adding value to your property.



### **Life time solution**

Wise Energy LTO Storage Battery provides an economically viable lifetime solution for your home or commercial energy storage.



### **-40°C to 60°C**

Wide temperature tolerance guarantees our Battery will be operating in the most extreme climates.



### **3+ Cycles a day**

With a large cycle life and high C-rate capacity our batteries can be discharged 3 or more times per day, allowing you to take full advantage of peak pricing.



### **100% Depth of Discharge**

By using a Lithium Titanate chemistry, Wise Energy Battery takes full advantage of the entire battery capacity.



### **Extreme Safety**

Our Lithium Titanate battery chemistry is the safest in the market. It's non-explosive and withstand high temperature up to 240°C without thermal runaway.



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SMU (Battery String Management Unit) is to Control and Manage LTO battery strings up to 800V. It consists of master BMS, Charge and Protection Circuit and communicates to the three phase hybrid inverter.

- SOC, ALM and RUN indicators
- CAN/Modbus Communication
- Maximum 200A

### Stakable LTO HV series Battery

- LTO chemistry Extrem Safety and 25000 long cycle life
- 220V~660V
- 8~24kWh
- Series Connection
- Support 10~30kW hybrid three phase inverter



### **Economically viable lifetime solution**

#### Cutting Edge Technology and high compatability

Robust, safest, longest life and most cost effective solution.

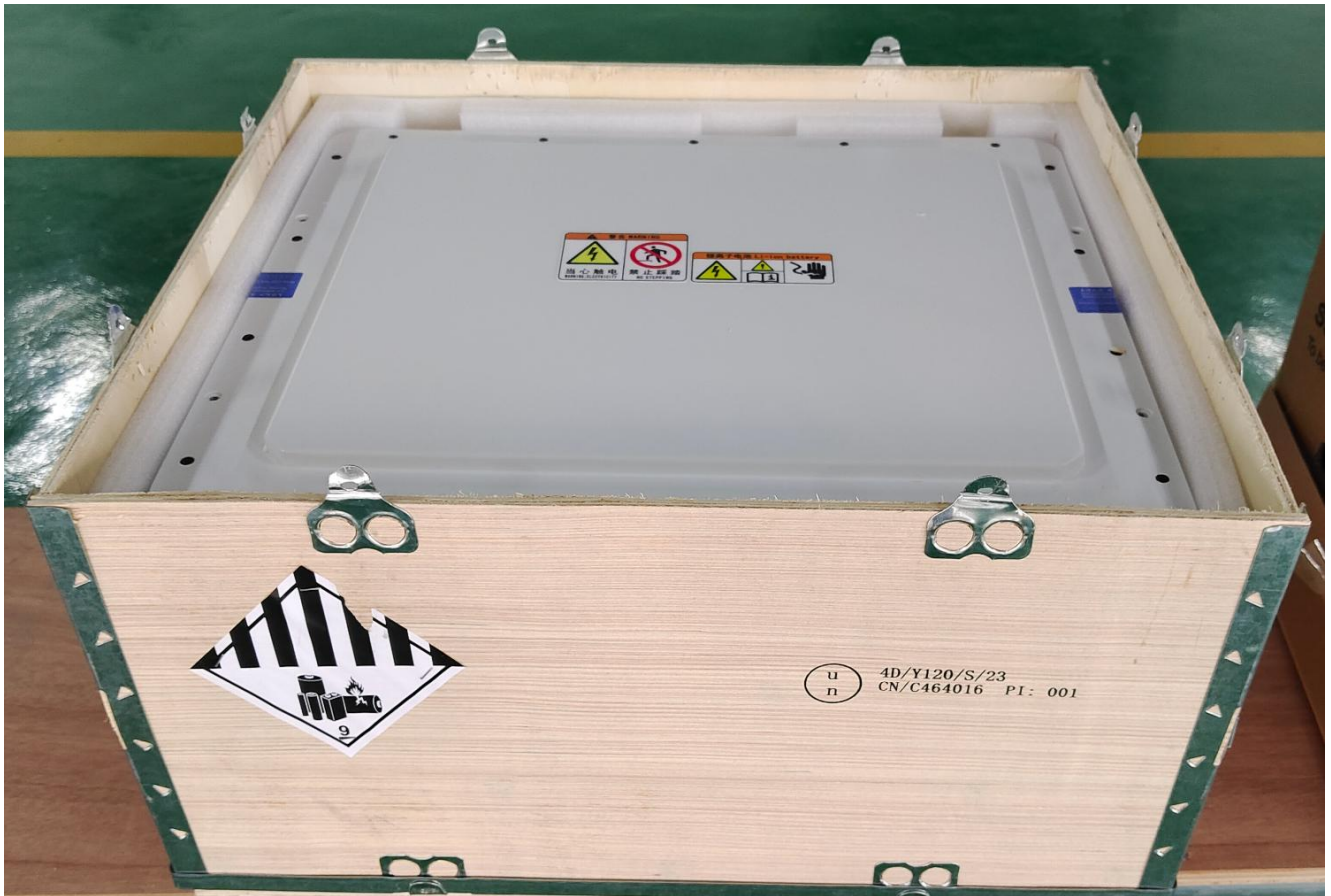
Ready to be paired with solar inverter brands such as Goodwe, Growatt, Jinlang, Deye, Voltronic Power

#### Easy Installation & Expansion

Maximum 6 packs scalable and can be expanded in the future. Stacking style with wheels easy to move.



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## 2. Specs



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## WE-LTO HV series

Model Number	LTO HV-110V 4kWh	LTO HV-220V 8kWh	LTO HV-330V 12kWh	LTO HV-440V 16kWh	LTO HV- 550V 20kWh	LTO HV-660V 24kWh
Normal Voltage	110V	220V	330V	440V	550V	660V
System configuration	48Series	96 Series	144 Series	192 Series	240 Series	288 Series
Energy	4kWh	8kWh	12kWh	16kWh	20kWh	24kWh

### Physical Characteristics

Size ( Wx H x D)	500*415*458.5	500*655*458.5	500*895*458.5	500*1135*458.5	500*1375*458.5	500*1615*458.5
Weight	92kg	165kg	238kg	312kg	386kg	459kg
Installation	Stackable, Outdoor Installation					

### Electrical Characteristics

Battery Chemistry	Lithium Titanate (LTO)
Energy Capacity	4kWh
Rated DC Charge/ Discharge Current	100A 2.6C
Max DC Charge/ Discharge Current(10s)	200A 5.5C
Battery Management System	Internal cell balancing, failure detection and trip. Under-Voltage, Over-Voltage, Over-Current, Over-Temp, Under-Temp protection and trip
Round trip efficiency	>95%
Battery short circuit current	1700A
<b>BMS</b>	
Communication	RS232-PC,RS485(B)-PC , RS485(A)-Inverter,Canbus-Inverter

### Operating Conditions

Operation temp range	-40°C ~60°C
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### Reliability and certification

Certifications	UN38.3, MSDS, UL1946(Cell), IEC 62619(Cell)
Hazardous materials classification	Class 9
Cycle Life(1C, 25°C ± 5°C)	25,000times cycle life/20+years
IP level	IP 65

### Cycle life and Warranty

Warranty	10 years product warranty/ 20 years performance warranty
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### 3. Pricing

			110V 4kwh	220V 8kwh	330V 12kwh	440V 16kwh	550V 20kwh	660V 24kwh
			1xBattery +1 SMU+1Cables	2xBattery +1 SMU+1Cables	3xBattery +3 SMU+2Cables	4xBattery +1 SMU+3Cables	5xBattery +1 SMU+4Cables	6xBattery +1 SMU+4Cables
<b>2~30pcs</b>	Item	Unit price	\$3,765.16	\$6,559.01	\$9,352.87	\$12,146.72	\$14,940.58	\$17,734.43
Battery	Battery	\$2,724.29						
	SMU	\$971.30						
Cables battery to SMU and Inverter		\$69.57						
<b>31~100pcs</b>	Item	Unit price	\$3,523.90	\$6,164.81	\$8,805.71	\$11,446.61	\$14,087.51	\$16,728.42
Battery	Battery	\$2,580.90						
	SMU	\$883.00						
Cables battery to SMU and Inverter		\$60.00						