

► **Our Mission:**

To extend the benefits of green energy to all humankind and empower those who strive to achieve their dreams.

► **Our Prospects:**

To become a globally respected energy storage battery manufacturer.

► **Our Vision:**

To serve our customers with a commitment to ensuring their satisfaction and success.

► **Core Value:**

We place the customer at the center, are driven by ambition, view innovation as our soul, and continuously pursue improvement.



www.lvtopsun.com

Guangdong Lvtopsun New Energy Co., Ltd

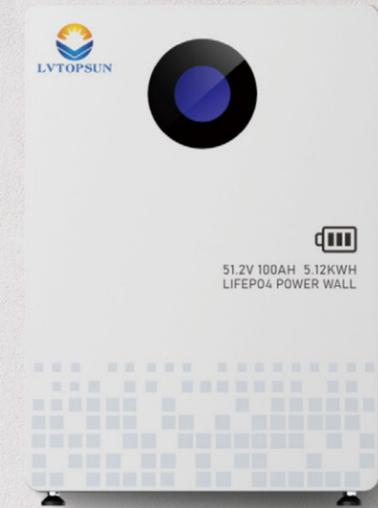
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**GUANGDONG LVTOPSUN
NEW ENERGY CO., LTD**

LITHIUM BATTERY SOLUTIONS PROVIDER

www.lvtopsun.com

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COMPANY PROFILE



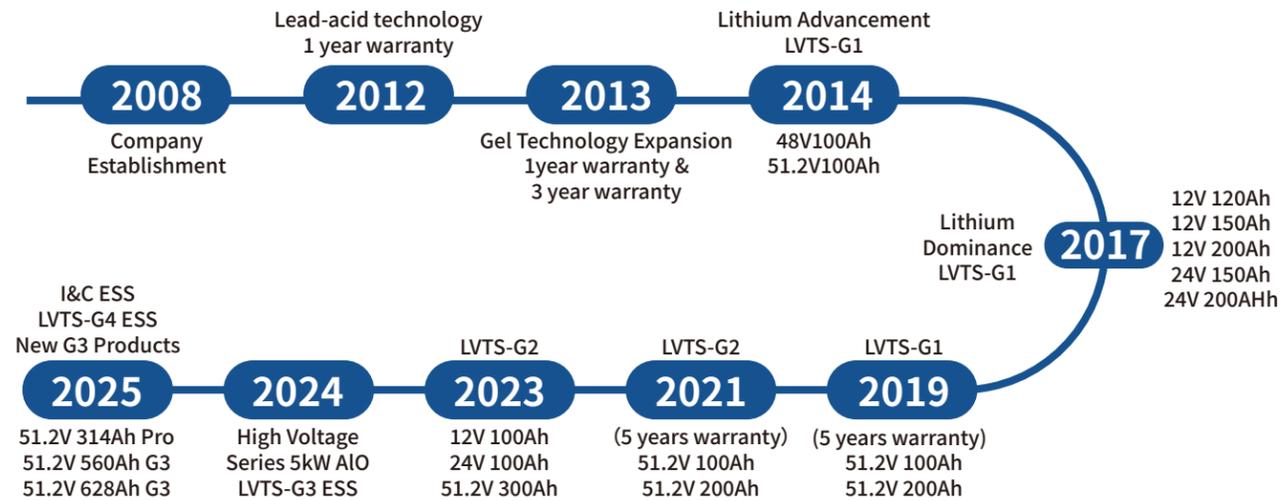
Established in 2008, Guangdong LVTOPSUN new energy Co., Ltd. is a well-known enterprise, dedicated to providing one-stop solution for new energy storage batteries.

As a professional manufacturer, LVTOPSUN is specializing in R&D, production, sales and services of energy storage batteries with over 10 years' experience. We boast a series of world-class production equipment lines with intelligent robotic arms, high precise detection instruments and monitor screen together to ensure the superior quality of batteries.

Our energy storage lithium batteries are renowned for their high quality, long lifetime, and excellent safety. We have already developed business in more than 50 countries covering the districts of Southeast Asia, the Middle East and Africa. In the future, we will continue to expand international markets in Europe and North America based on top-notch materials, advanced production technology, and world-class quality combined.



LVTOPSUN TIMELINE



MATCH MAINSTREAM INVERTER



PRODUCTION LINE

LVTOPSUN possesses strong R&D and production capabilities, world-class automation and automatic production line, and high-tech equipment and advanced technology.



More Usable Energy
90% depth of discharge

High Energy
Single cell with 100Ah

Flexible Installation
Wall mounted or floor stand

Indicator light display
Touchscreen-control. Real-time battery status display

Perfect Compatibility
Compatible with mainstream inverter brand

High Expansibility
Max 15 batteries in parallel. Scalable from 5.12kWh to 76.8kWh

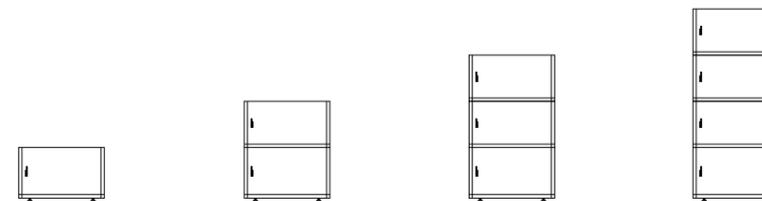


Model	LV-48100	LVTS-512100
Performance		
Nominal Voltage	48 Vdc	51.2 Vdc
Nominal Capacity	100 Ah	100 Ah
Battery Energy	4.8 kwh	5.12 kwh
Charge Voltage	52.2~52.65 Vdc	55.68~56.16 Vdc
Discharge Voltage	42.75~52.65 Vdc	45.6~56.16 Vdc
Max Charge Current	50 A	
Max Charge Power	2400 W	2560 W
Max Discharge Current	100 A	
Max Discharge Power	4800 W	5120 W
Short circuit current	350 A	

Communication	
Display	SOC status indicator, LED indicator
Communication	RS232, RS485, CAN

General Specification	
Dimension (WxDxH mm)	440x500x132 mm
Weight (Kg)	40.5 kg 47.3 kg
Installation	Rack mounted or wall mounted
Working Temperature	-20°C~60°C
Storage Temperature	≤25°C, 12 months; ≤35°C, 6 months; ≤45°C, 3 months
Operating /Storage /humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP20
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Warranty	5 years
Scalability	Max 15 batteries in parallel

Ordering and Deliverable Part	
Product ordering part	L48100 battery (cable/wall mount included) LVTS-512100 battery (cable/wall mount included)



Model	LVTS-512100-1-G2	LVTS-512100-2-G2	LVTS-512100-3-G2	LVTS-512100-4-G2
Performance				
Nominal Voltage	51.2 Vdc			
Nominal Capacity	100 Ah	200 Ah	300 Ah	400 Ah
Battery Energy	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Charge Voltage	55.68~56.16 Vdc			
Discharge Voltage	45.6~56.16 Vdc			
Max Charge Current	50 A	100 A	150 A	200 A
Max Charge Power	2500 W	5000 W	7500 W	10000 W
Max Discharge Current	100 A	200 A	200 A	200 A
Max Discharge Power	5000 W	10000 W	10000 W	10000 W
Short circuit current	350 A			
Communication				
Display	SOC status indicator, LED indicator			
Communication	RS232, RS485, CAN			
General Specification				
Dimension (WxDxH mm)	620X145X435 MM	620X145X816 MM	620X145X1197 MM	620X145X1578 MM
Weight (kg)	45 kg	87.5 kg	130 kg	172.5 kg
Installation	Ground mounted or wall mounted			
Working Temperature	-20°C~60°C			
Storage Temperature	≤25°C,12 months; ≤35°C,6 months; ≤45°C,3 months			
Operating/Storage /humidity	≤95%RH			
Max Operating Altitude	≤2000m			
IP Rating	IP20			
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate			
Cycle life	8000 Cycles @ 80% DOD/25°C/0.5C, 60% EOL			
Scalability	Max 15 batteries in paralle			
Ordering and Deliverable Part				
Product ordering part	LVTS 512100 Battery+ Parallel Cable			
	LVTS 512100 Base + Power Cable			



High Efficiency

Full-time 1C discharge



Flexible Installation

Wall mounted or floor stand



High Expansibility

Scalable from 5.12kWh to 76.8kwh



High Energy Density

Proprietary CTP technology



Safe&Reliable

Lithium iron phosphate cell!
Cobalt free



Perfect Compatibility

Compatible with mainstream inverter brand



 More Usable Energy 90% depth of discharge	 High Efficiency Full-time 1C discharge	 Flexible Installation Wall mounted or floor stand
 High Expansibility Scalable from 5.12kWh to 76.8kwh	 Safe&Reliable Lithium iron phosphate cell Cobalt free	 Perfect Compatibility Compatible with mainstream inverter brand

Model	LVTS-512100-G3
Performance	
Nominal Voltage	51.2 Vdc
Nominal Capacity	100 Ah
Battery Energy	5120 Wh
Charge Current	50 A
Charge Power	2560 W
Discharge Current	100 A
Discharge Power	5120 W
Short Circuit Current	350 A
Communication	
Display	Color Touchscreen
Communication	RS232, RS485, CAN
General Specification	
Dimension (WxDxH mm)	440x138x600 mm
Weight (Kg)	47.3 kg
Installation	Floor Stand or Wall Mount
Working Temperature	-20°C~60°C
Operating/Storage Humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP20
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Scalability	Max 15 batteries in paralle
Warranty	5 years
Standard Compliance (More Available Upon Request)	
Certificates	CE, UN38.3
Ordering and Deliverable Part	
Product ordering part	LVTS-512100-G3 (Cable /Wall Mount Included)



More Usable Energy
90% Depth of Discharge

Flexible Investment
Scalable From 10.24 to 645.12 kWh

Safe & Reliable
Lithium Iron Phosphate Cell

Easy Installation
Wall Mounted or Floor Stand

Quick Commissioning
Color Touchscreen

Perfect compatibility
Compatible with DEYE, GOODWE, GROWATT, SOLIS, SOFAR, LUXPOWER, TBB ... Hybrid Inverter

Model	LVTS-512200-G3
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Performance	
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Nominal Voltage	51.2 Vdc
Nominal Capacity	200 Ah
Battery Energy	10.24 kWh
Charge Voltage	55.68~56.16 Vdc
Discharge Voltage	45.6~56.16 Vdc
Maximum Charge Current	100 A
Maximum Discharge Current	170 A
Maximum Charge Power	5120 W
Max Discharge Power	8704 W
Short circuit current	540 A

Communication	
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Display	LED indicator+ LCD Display
Communication	RS232, RS485, CAN

General Specification	
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Dimension (WxDxH mm)	465x186x695 mm
Weight (Kg)	83.5 kg
Installation	Floor Stand or Wall Mount
Working Temperature	-20°C~60°C
Storage Temperature	≤25°C,12 months; ≤35°C,6 months; ≤45°C,3 months
Operating /Storage /humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP20
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Warranty	5 years
Scalability	Max 63 batteries in paralle

Ordering and Deliverable Part	
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Product ordering part	LVTS-512200 battery (cable/wall mount included)
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More Usable Energy
90% depth of discharge



High Energy
Single cell with 228Ah



High Expansibility
Max 63 batteries in parallel. Scalable from 11.67kWh to 735.43kWh



Flexible Installation
Wall mounted or floor stand



Smart Display Screen
Touchscreen-control. Real-time battery status display



Perfect Compatibility
Compatible with mainstream inverter brand



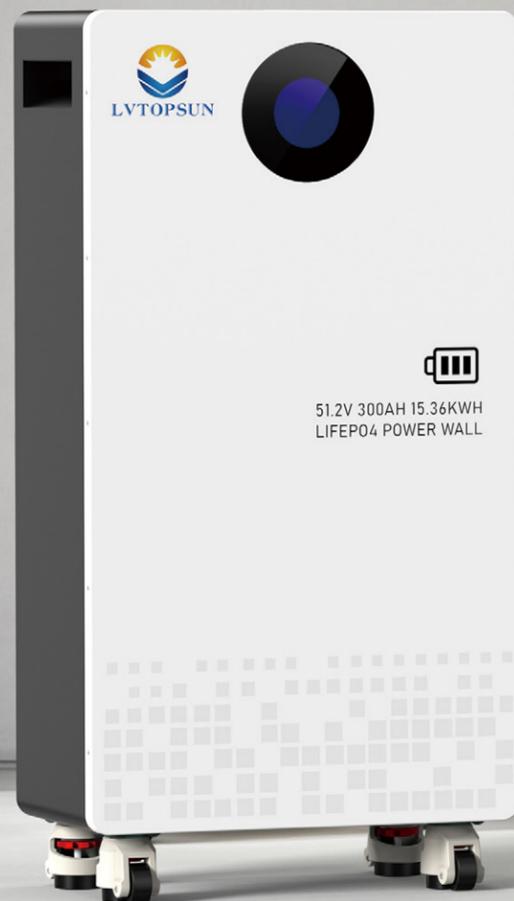
Model	LVTS-512228-G3
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Performance	
Nominal Voltage	51.2 Vdc
Nominal Capacity	228 Ah
Battery Energy	11.67 kWh
Charge Voltage	55.68~56.16 Vdc
Discharge Voltage	45.6~56.16 Vdc
Maximum Charge Current	100 A
Maximum Discharge Current	170 A
Maximum Charge Power	5120 W
Max Discharge Power	8704 W
Short circuit current	540 A

Communication	
Display	LED indicator+ LCD Display
Communication	RS232, RS485, CAN

General Specification	
Dimension (WxDxH mm)	465x186x695 mm
Weight (Kg)	83.5 kg
Installation	Floor Stand or Wall Mount
Working Temperature	-20°C~60°C
Storage Temperature	≤25°C,12 months; ≤35°C,6 months; ≤45°C,3 months
Operating /Storage /humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP20
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Warranty	5 years
Scalability	Max 63 batteries in paralle

Ordering and Deliverable Part	
Product ordering part	LVTS-512228 battery (cable/wall mount included)



 More Usable Energy 90% Depth of Discharge	 Flexible Investment Scalable From 15.36 to 967.68 kWh	 Safe & Reliable Lithium Iron Phosphate Cell
 Easy Installation Floor Stand	 Quick Commissioning Color Touchscreen	 Perfect compatibility Compatible with DEYE, GOODWE, GROWATT, SOLIS, SOFAR, LUXPOWER, TBB ... Hybrid Inverter

Model	LVTS-512300-G3
Performance	
Nominal Voltage	51.2 Vdc
Nominal Capacity	300 Ah
Battery Energy	15.36 kWh
Charge Current	150 A
Charge Power	7680 W
Discharge Current	200 A
Discharge Power	10240 W
Short Circuit Current	540 A
Charge Voltage	55.68~56.16 Vdc
Discharge Voltage	45.6~56.16 Vdc
Communication	
Display	SOC status indicator, LED indicator, LCD Display
Communication	RS232, RS485, CAN
General Specification	
Dimension (WxDxH mm)	866x450x230 mm
Weight (Kg)	117 kg
Installation	Floor Stand
Working Temperature	-20°C~60°C
Operating/Storage Humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP20
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Scalability	Max 63 batteries in parallel
Warranty	5 years
Standard Compliance (More Available Upon Request)	
Certificates	CE, UN38.3
Ordering and Deliverable Part	
Product ordering part	LVTS-512300 BaMery (Cable included)

 More Usable Energy 90% depth of discharge	 High Energy Single cell with 314Ah	 High Expansibility Max 63 batteries in parallel. Scalable from 16.07kWh to 1012.83kWh
 Flexible Installation Floor stand with wheels	 Perfect Compatibility Compatible with major inverter brand	 Smart Display Screen Touchscreen-control. Real-time battery status display



Model	LVTS-512314-G3
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Performance	
Nominal Voltage	51.2 Vdc
Nominal Capacity	314 Ah
Battery Energy	16076.8 Wh
Charge Voltage	56.16 V
Maximum Charge Current	150 A
Maximum Discharge Current	200 A
Charge Voltage	55.68~56.16 Vdc
Discharge Voltage	45.6~56.16 Vdc
Short Circuit Current	540 A

Communication	
Display	LED indicator + LCD Display
Communication	RS232, RS485, CAN

General Specification	
Dimension (WXDXH mm)	866x450x230 mm
Weight (Kg)	119 kg
Working Temperature	Charge 0°C~45°C Discharge -20°C~45°C
Storage Temperature	Short Term(within 1 month) -10°C~45°C
	LongTerm(within 1 year)0°C~35°C
Storage Humidity	≤ 95%RH
Max Operating Altitude	≤2000m
IP Rating	IP20
Cell Type	LiFePO ₄ , Lithium Iron Phosphate
Warranty	10 years
Cycle life	8000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL

Ordering and Deliverable Part	
Product ordering part	LVTS-512314 BaMery (Cable included)



SAFE

Grade A
LiFePO₄ Cell

RELIABLE

Compatible with
Major PCS Brand

SCALABLE

Scalable From 28.6
to 2016 kWh

Model	LVTS-512560	LVTS-512628
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Performance		
Nominal Voltage	51.2 Vdc	
Nominal Capacity	560 Ah	628 Ah
Battery Energy	28.6 kWh	32 kWh
Charge Current	150 A	
Charge Power	7.68 kW	
Discharge Current	200 A	
Discharge Power	10.24 kW	
Short circuit current	540 A	

Communication	
Display	Color Touchscreen
Communication	CAN, RS485,RS232

General Specification	
Dimension (WxDxH mm)	800x325x900 mm
Weight (kg)	240 kg
Installation	Floor Stand
Operating Temperature	Charge:0~55°C/Discharge: -20°C~55°C
Operating /Storage	≤95% RH
Max Operating Altitude	≤2000 m
IP Rating	IP20
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	6000 Cycles @ 80% DoD/25°C/0.5C 60% EOL
Scalability	Max 63 batteries in parallel
Warranty	5 years

Standard Compliance (more available upon request)	
Certificates	CE, UN38.3

Ordering and Deliverable Part	
Product ordering part	LVTS-512560 Battery(Cable included)
	LVTS-512628 Battery(Cable included)



More Usable Energy
90% depth of discharge



Highly Integrated
All-In-One design



Easy Installation
Stacked design for both battery and inverter



High Expansibility
Scalable from 5.12kWh to 20.48kWh



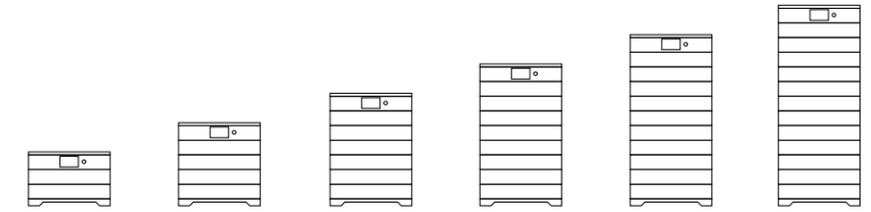
Smart Display Screen
Touchscreen-control.Real-time battery status display



Perfect Compatibility
Compatible with mainstream inverter brand



Model	LVTS-512100-1-AIO	LVTS-512100-2-AIO	LVTS-512100-3-AIO	LVTS-512100-4-AIO
Inverter Module AIO-LS				
Battery Input	48 VDC,117 A			
Type Of Battery	Lithium			
Rated Power	5000 VA/5000 W			
AC Output	230 VAC,50/60 Hz,22 A,1 Φ			
AC input	230 VAC,50/60 Hz,40 A,1 Φ			
Max.AC Charge Current	80 A			
Max.PV Input Voltage(VOC)	450 VDC			
Max. PV Input Current	18 A			
MPPT Voltage Range	120~430 VDC			
warranty	2 years			
Battery Module AIO-LVTS-512100				
Nominal Voltage	51.2 Vdc			
Nominal Capacity	100 Ah	200 Ah	300 Ah	400 Ah
Battery Energy	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Charge Voltage	55.68~56.16 Vdc			
Discharge Voltage	45.6~56.16 Vdc			
Max Charge Current	50 A	100 A	150 A	200 A
Max Charge Power	2500 W	5000 W	7500 W	10000 W
Max Discharge Current	100 A	200 A	200 A	200 A
Max Discharge Power	5000 W	10000 W	10000 W	10000 W
Short circuit current	350 A			
Display	SOC status indicator, LED indicator			
Communication	RS232,RS485,CAN			
Dimension (WXDXH mm)	650X380X365	650X380X503.5	650X380X642	650X380X780.5
Weight (kg)	45 kg	87.5 kg	130 kg	172.5 kg
Working Temperature	-20°C~60°C			
Storage Temperature	≥25°C12 months; ≤35 °C,6 months;≤45 °C,3 months			
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate			
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL			
Scalability	Max15batteries in parallel			
warranty	5 years			



Model	LVTS-5220 -HV2	LVTS-5220 -HV4	LVTS-5220 -HV6	LVTS-5220 -HV8	LVTS-5220 -HV10	LVTS-5220 -HV12
Performance						
Nominal Voltage(Vdc)	102.4	204.8	307.2	409.6	512	614.4
Operating Voltage(Vdc)	83.2-113.6	166.4-227.2	249.6-340.8	332.8-454.4	416-568	499.2-681.6
Nominal Capacity(Ah)	102					
Battery Energy(kWh)	10.44	20.88	31.32	41.76	52.20	62.64
Charge Current(A)	50					
Charge Power(W)	5120	10240	15360	20480	25600	30720
Discharge Current(A)	80					
Discharge Power(W)	8192	16384	24576	32768	40960	49152
Communication						
Display	4.3 inch (16:9) Touch Screen					
Communication	CAN					
General Specification						
Dimension (WxDxH mm)	620x380x506	620x380x783	620x380x1060	620x380x1337	620x380x1614	620x380x1891
Weight (Kg)	110 kg	200 kg	290 kg	380 kg	470 kg	560 kg
Installation	Floor Stand					
Working Temperature	-20°C~60°C					
Storage humidity	≤95% RH					
Warranty	5 years					
Max Operating Altitude	≤2000m					
IP Rating	IP65					
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate					
Cycle life	6000 Cycles @ 80% DOD/25°C/0.5C, 60% EOL					
Scalability	Max 16 piles in parallel					
Standard Compliance (More Available Upon Request)						
Certificates	CE, UN38.3					
Ordering and Deliverable Part						
Product ordering part	LVTS-5220-HV Battery LVTS-5220-HVMain Control Level 3 Parallel Box					



Advanced BMS
Pack level active balance



Easy Installation
20kg control module
40kg battery module



Flexible Voltage Options
Scalable from 102.4V to 614.4V



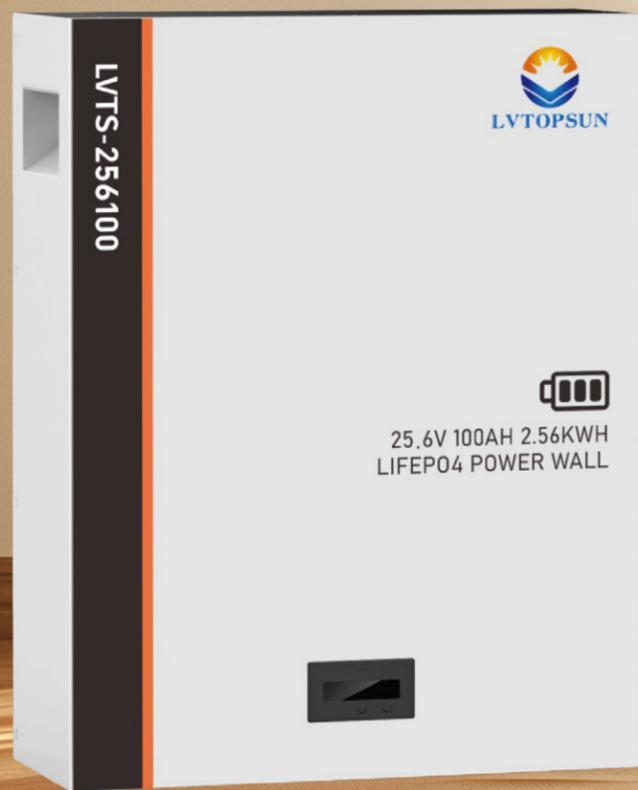
High Expansibility
Max 16 piles in parallel



Smart Display Screen
Touchscreen-control.Real-time battery status display



Perfect Compatibility
Compatible with mainstream inverter brand



High Expansibility

Scalable from 2.56kWh to 20.48kwh



Safe&Reliable

Lithium iron phosphate cell
Cobalt free



Easy Maintenance

Easy emergency recharge

Model	LVTS-256100
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Performance	
Nominal Voltage	25.6 Vdc
Nominal Capacity	100 Ah
Battery Energy	25.6V,100Ah,2.56 kWh
Charge Current	50 A
Charge Power	1280 W
Discharge Current	100 A
Discharge Power	2560 W
Short Circuit Current	≈2000 A

General Specification	
Dimension (WxDxH mm)	330x135x420 mm
Weight (Kg)	26 kg
Installation	Wall Mount
Display	LCD Display
Working Temperature	-20°C~60°C
Operating/Storage	≤ 95%RH
Max Operating Altitude	≤2000m
IP Rating	IP20
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	6000 Cycles @ 80% DOD/25°C/0.5C, 60% EOL
Scalability	Max 2 batteries in series Max 4 batteries in parallel
Warranty	5 years

Standard Compliance (More Available Upon Request)	
Certificates	CE, UN38.3

Ordering and Deliverable Part	
Product ordering part	LVTS-256100 Battery



High Expansibility
Scalable from 2.56kWh to 20.48kwh



Safe&Reliable
Lithium iron phosphate cell
Cobalt free



Easy Maintenance
Easy emergency recharge

Model	LVTS-256200	LVTS-256280
Performance		
Nominal Voltage	25.6 Vdc	
Nominal Capacity	200 Ah	280 Ah
Battery Energy	5120 Wh	7168 Wh
Charge Current	100 A	140 A
Discharge Current	160 A	200 A
Charge Voltage	28.4 V	
Discharge Voltage Range	22.8 V~28.4 V	
Communication		
Display	Button Screen	
Communication	CAN,RS485,RS232	
General Specification		
Dimension (WxDxH mm)	580x430x230 mm	
Weight (Kg)	50 kg	62.5 kg
Installation	Wall Mount	
Display	LCD Display	
Working Temperature	-20°C~60°C	
Operating/Storage	≤ 95%RH	
Max Operating Altitude	≤2000m	
IP Rating	IP20	
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate	
Cycle life	6000 Cycles @ 80% DOD/25°C/0.5C,60% EOL	
Scalability	Max 2 batteries in series	Max 4 batteries in parallel
Warranty	5 years	
Standard Compliance (More Available Upon Request)		
Certificates	CE, UN38.3	
Ordering and Deliverable Part		
Product ordering part	LVTS-256200 Battery / LVTS-256280 Battery	



 Economic & Affordable	 High Expansibility	 Safe & Reliable Lithium iron phosphate cell Cobalt free
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Model	LVTS-128100-E	LVTS-128200-E	LVTS-128280-E
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Performance			
Nominal Ratings	12.8 V, 100 Ah, 1.28kWh	12.8 V, 200 Ah, 2.56kWh	12.8 V, 280 Ah, 3.58kWh
Bulk Charge Voltage	14 V		
Float Charge Voltage	13.8 V		
Low Voltage	12.8 V		
Cutoff Voltage	11.6 V		
Charge Current	50 A	100 A	150 A
Discharge Current	100 A	200 A	200 A
Short Circuit Current	≈1000 A	≈2000 A	≈2000 A

General Specification			
Dimension (WxDxH mm)	260X168X210 MM	520X168X210 MM	387X206X269 MM
Weight (Kg)	9.85 kg	26 kg	27 kg
Working Temperature	-20°C~60°C		
Operating/Storage	≤ 95%RH		
Max Operating Altitude	≤2000m		
IP Rating	IP54		
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate		
Cycle life	6000 Cycles @ 80% DOD/25°C/0.5C, 60% EOL		
Scalability	Max 4 batteries in series	Max 4 batteries in parallel	
Warranty	5 years		

Standard Compliance (more available upon request)	
Certificates	CE, UN38.3

Ordering and Deliverable Part	
Product ordering part	LVTS-128100 Battery / LVTS-128200 Battery / LVTS-128280 Battery



Economic&Affordable



High Expansibility



Safe&Reliable
Lithium iron phosphate cell
Cobalt free

Model	LVTS-256100-E	LVTS-256200-E
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Performance		
Nominal Ratings	25.6 V,100 Ah,2.56 kWh	25.6 V,200 Ah,5.12 kWh
Bulk Charge Voltage	28 V	
Float Charge Voltage	27.6 V	
Low Voltage	25.6 V	
Cutoff Voltage	23.2 V	
Charge Current	500 A	100 A
Discharge Current	100 A	200 A
Short Circuit Current	≈1000 A	≈2000 A

General Specification		
Dimension (WxDxH mm)	491X182X232 mm	580X430X230 mm
Weight (Kg)	19 kg	51 kg
Working Temperature	-20°C~60°C	
Operating/Storage	≤ 95%RH	
Max Operating Altitude	≤2000m	
IP Rating	IP54	
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate	
Cycle life	6000 Cycles @ 80% DOD/25°C/0.5C, 60% EOL	
Scalability	Max 2 batteries in series	Max 4 batteries in parallel
Warranty	5 years	

Standard Compliance (more available upon request)	
Certificates	CE, UN38.3

Ordering and Deliverable Part	
Product ordering part	LVTS-256100 Battery / LVTS-256200 Battery