

► **Our Mission:**

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

► **OUR PROSPECTS:**

To be a respected energy storage battery manufacturer in the world.

► **Our Vision:**

Serving Customers –Dedicated to the satisfaction and success of every customer.

► **Core Value:**

Take the customer as the center, base on striver, take innovation as the soul, keep continuous improvement.



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**Guangdong Lvtopsun New Energy Co., Ltd**

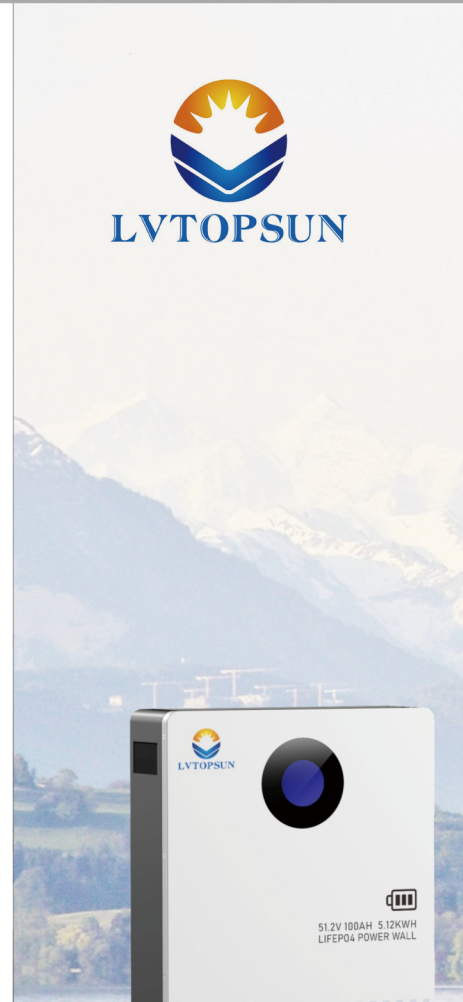
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**GUANGDONG LVTOPSUN  
NEW ENERGY CO., LTD**

LITHIUM BATTERY SOLUTIONS PROVIDER

[www.lvtopsun.com](http://www.lvtopsun.com)

# CONTENTS

## ABOUT LVTOPSUN

COMPANY PROFILE	01
LVTOPSUN TIMELINE	02
MATCH MAINSTREAM INVERTER	02
PRODUCTION LINE	03

## LV48100 04

## LVTS 512100-X-G2 06

## LVTS-512200-G2 08

## LVTS-512228-G2 10

## LVTS-512300-G2 12

## LVTS-512100-G3 14

## LVTS-512200-G3 16

## LVTS-512228-G3 18

## LVTS-512300-G3 20

## LVTS-512100-X-AI0 22

## LVTS-5220-HVX 24

## LVTS-256X00 26

## LVTS-128X00 28

## 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.

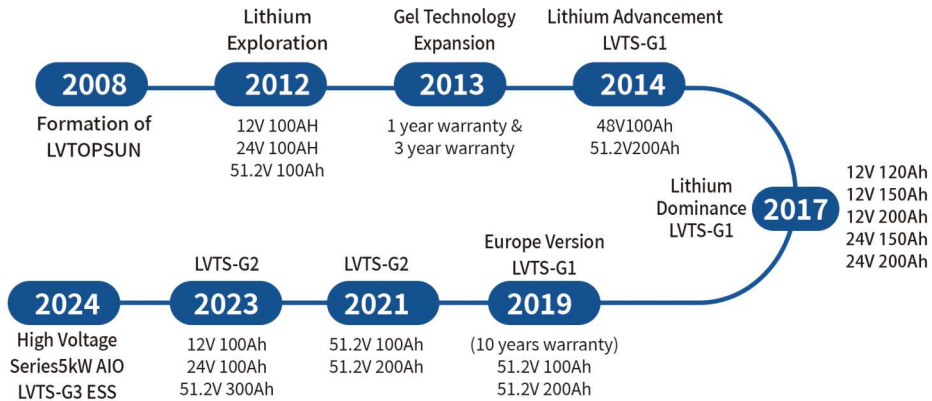
As a professional manufacturer, LVTOPSUN is specializing in R&D, production, sales and services of energy storage batteries with over 10 years' experience. We boast a series of world-class production equipment lines with intelligent robotic arms, high precise detection instruments and monitor screen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

SOFAR GOODWE LUXPOWER<sup>TEK</sup> GROWATT

SMA MEGAREVO Deye LVTOPSUN

MUST<sup>®</sup> solis SRNE SAJI

victron energy BLUE POWER Voltronic Power Advancing Power

## PRODUCTION LINE

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

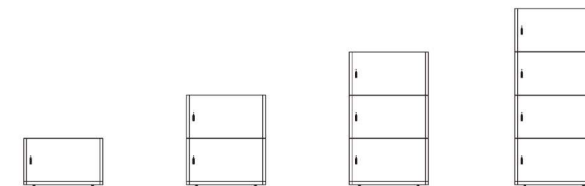
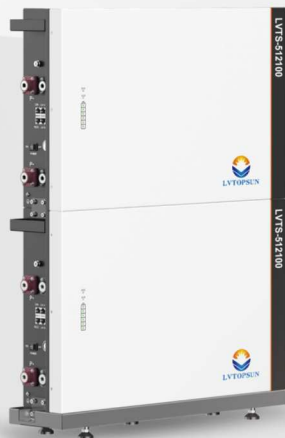


 <b>Economic &amp; Affordable</b>	 <b>More Usable Energy</b> 90% depth of discharge	 <b>High Efficiency</b> Full-time 1C discharge
 <b>High Expansibility</b> Scalable from 4.8kWh to 72kWh	 <b>Flexible Installation</b> Rack mounted or wall mounted	 <b>Perfect Compatibility</b> Compatible with mainstream inverter brand



Model	LV48100
<b>Performance</b>	
Nominal voltage	48 Vdc
Nominal capacity	100Ah
Battery energy	4.8 kWh
Charge voltage	52.2~52.65 Vdc
Discharge voltage	42.75~52.65 Vdc
Max charge current	50A
Max charge power	2400W
Max discharge current	100A
Max discharge power	4800W
Short circuit current	350A
<b>Communication</b>	
Display	SOC status indicator, LED indicator
Communication	RS232, RS485, CAN
<b>General Specification</b>	
Dimension( W×D×H mm)	440×500×132mm
Weight (Kg)	40.5kg
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 <sub>4</sub> , Lithium Iron phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Warranty	5 years
Scalability	Max 15 batteries in parallel
<b>Ordering and Deliverable Part</b>	
Product ordering part	LV48100 battery (Cable/wall mount included)





 <b>High Efficiency</b> Full-time 1C discharge	 <b>Flexible Installation</b> Wall mounted or floor stand	 <b>High Expansibility</b> Scalable from 5.12kWh to 76.8kWh
 <b>High Energy Density</b> Proprietary CTP technology	 <b>Safe&amp;Reliable</b> Lithium iron phosphate cell Cobalt free	 <b>Perfect Compatibility</b> Compatible with mainstream inverter brand

Model	LVTS-512100-1-G2	LVTS-512100-2-G2	LVTS-512100-3-G2	LVTS-512100-4-G2
<b>Performance</b>				
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	50A	100A	150A	200A
Max charge power	2500W	5000W	7500W	10000W
Max discharge current	100A	200A	200A	200A
Max discharge power	5000W	10000W	10000W	10000W
Short circuit current	350 A			
<b>Communication</b>				
Display	SOC status indicator, LED indicator			
Communication	RS232、RS485、CAN			
<b>General Specification</b>				
Dimension( W×D×H mm)	620×145×435mm	620×145×816mm	620×145×1197mm	620×145×1578mm
Weight (Kg)	45kg	87.5kg	130kg	172.5kg
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	LiFePO4,Lithium Iron phosphate			
Cycle life	8000 Cycles @ 80% DOD/25 °C/0.5C, 60% EOL			
Scalability	Max 15 batteries in parallel			
<b>Ordering and Deliverable Part</b>				
Product ordering part	LVTS 512100 battery+ Parallel cable LVTS 512100 base + Power cable			



**More Usable Energy**  
90% depth of discharge



**High Energy**  
Single cell with 200Ah



**High Expansibility**  
Max 63 batteries in parallel. Scalable  
from 10.24kWh to 645.12kWh



**Flexible Installation**  
Wall mounted or floor  
stand



**Safe&Reliable**  
Lithium iron phosphate cell  
Cobalt free



**Perfect Compatibility**  
Compatible with mainstream  
inverter brand



Model	LVTS-512200-G2
<b>Performance</b>	
Nominal voltage	51.2 Vdc
Nominal capacity	200Ah
Battery energy	10.24 kWh
Charge voltage	55.68-56.16 Vdc
Discharge voltage	45.6-56.16 Vdc
Maximum charge current	120A
Maximum discharge current	170A
Maximum charge power	6144W
Maximum discharge power	8704W
Short circuit current	540A
<b>Communication</b>	
Display	LED indicator + LCD display
Communication	RS232、RS485、CAN
<b>General Specification</b>	
Dimension( W×D×H mm)	465×186×695mm
Weight (Kg)	83.5kg
Installation	Floor stand
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 <sub>4</sub> , Lithium Iron phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Warranty	5 years
Scalability	Max 63 batteries in parallel
<b>Ordering and Deliverable Part</b>	
Product ordering part	LVTS-512200 battery (Cable/wall mount included)



**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

**Safe&Reliable**Lithium iron phosphate cell  
Cobalt free**Perfect Compatibility**

Compatible with mainstream inverter brand



Model	LVTS-512228-G2
Performance	
Nominal voltage	51.2 Vdc
Nominal capacity	228Ah
Battery energy	11.67 kWh
Charge voltage	55.68-56.16 Vdc
Discharge voltage	45.6-56.16 Vdc
Maximum charge current	100A
Maximum discharge current	160A
Maximum charge power	5120W
Maximum discharge power	8192W
Short circuit current	540A
Communication	
Display	LED indicator + LCD display
Communication	RS232, RS485, CAN
General Specification	
Dimension( W×D×H mm)	465×186×695mm
Weight (Kg)	83.5kg
Installation	Floor stand 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 <sub>4</sub> , Lithium Iron phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Warranty	5 years
Scalability	Max 63 batteries in parallel
Ordering and Deliverable Part	
Product ordering part	LVTS-512228 battery (Cable/wall mount included)



**More Usable Energy**  
90% depth of discharge



**High Energy**  
Single cell with 300Ah



**High Expansibility**  
Max 63 batteries in parallel. Scalable from 15.36kWh to 967.68kWh



**Flexible Installation**  
Floor stand with wheels



**Safe&Reliable**  
Lithium iron phosphate cell  
Cobalt free



**Perfect Compatibility**  
Compatible with mainstream inverter brand



<b>Model</b>	<b>LVTS-512300-G2</b>
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<b>Performance</b>	
Nominal voltage	51.2 Vdc
Nominal capacity	300Ah
Battery energy	15.36 kWh
Charge current	150A
Charge power	7680W
Discharge current	200A
Discharge power	10240W
Short circuit current	540A

<b>Communication</b>	
Display	SOC status indicator, LED indicator, LCD display
Communication	CAN,RS485, RS232

<b>General Specification</b>	
Dimension( W×D×H mm)	500×230×780mm
Weight (Kg)	120kg
Installation	Floor stand
Working temperature	-20°C~60°C
Operating / storage humidity	≤ 95%RH
Max operating altitude	≤2000m
IP rating	IP20
Cell technology	LiFePO <sub>4</sub> , Lithium Iron phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Scalability	Max 63 batteries in parallel

<b>Ordering and Deliverable Part</b>	
Product ordering part	LVTS-512300 battery (Cable included)





**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

<b>Model</b>	<b>LVTS-512100-G3</b>
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### 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	CAN, RS485,RS232

### General Specification

Dimension( W×D×H mm)	440×138×600mm
Weight (Kg)	47.3kg
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 <sub>4</sub> , Lithium Iron phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Scalability	Max 15 batteries in parallel

### Standard Compliance (More Available Upon Request)

Certificates	CE, UN38.3
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### Ordering and Deliverable Part

Product ordering part	LVTS-512100-G3(Cable / wall mount Included)
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**More Usable Energy**  
90% depth of discharge



**High Energy**  
Single cell with 200Ah



**High Expansibility**  
Max 63 batteries in parallel. Scalable from 10.24kWh to 645.12kWh



**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-512200-G3
<b>Performance</b>	
Nominal voltage	51.2 Vdc
Nominal capacity	200Ah
Battery energy	10.24 kWh
Charge voltage	55.68-56.16 Vdc
Discharge voltage	45.6-56.16 Vdc
Maximum charge current	100A
Maximum discharge current	160A
Maximum charge power	5120W
Maximum discharge power	8192W
Short circuit current	540A
<b>Communication</b>	
Display	LED indicator + LCD display
Communication	RS232、RS485、CAN
<b>General Specification</b>	
Dimension( W×D×H mm)	465×186×695mm
Weight (Kg)	83.5kg
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 tating	IP20
Cell technology	LiFePO <sub>4</sub> , Lithium Iron phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Warranty	5 years
Scalability	Max 63 batteries in parallel
<b>Ordering and Deliverable Part</b>	
Product ordering part	LVTS-512200 battery(Cable/wall mount included)





**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
Performance	
Nominal voltage	51.2 Vdc
Nominal capacity	228Ah
Battery energy	11.67 kWh
Charge voltage	55.68-56.16 Vdc
Discharge voltage	45.6-56.16 Vdc
Maximum charge current	100A
Maximum discharge current	160A
Maximum charge power	5120W
Maximum discharge power	8192W
Short circuit current	540A
Communication	
Display	LED indicator + LCD display
Communication	RS232、RS485、CAN
General Specification	
Dimension( W×D×H mm)	465×186×695mm
Weight (Kg)	83.5kg
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 <sub>4</sub> , Lithium Iron phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Warranty	5 years
Scalability	Max 63 batteries in parallel
Ordering and Deliverable Part	
Product ordering part	LVTS-512228 battery(Cable/wall mount included)



**More Usable Energy**  
90% depth of discharge



**High Energy**  
Single cell with 300Ah



**High Expansibility**  
Max 63 batteries in parallel. Scalable from 15.36kWh to 967.68kWh



**Flexible Installation**  
Wall mounted or floor stand



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



**Perfect Compatibility**  
Compatible with mainstream inverter brand



<b>Model</b>	<b>LVTS-512300-G3</b>
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<b>Performance</b>	
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

<b>Communication</b>	
Display	SOC status indicator, LED indicator, LCD display
Communication	CAN,RS485,RS232

<b>General Specification</b>	
Dimension( W×D×H mm)	500×230×780mm
Weight (Kg)	120kg
Installation	Floor stand
Working temperature	-20°C~60°C
Operating /storage humidity	≤ 95%RH
Max operating altitude	≤2000m
IP rating	IP20
Cell technology	LiFePO <sub>4</sub> , Lithium Iron phosphate
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL
Scalability	Max 63 batteries in parallel

<b>Standard Compliance (more available upon request)</b>	
Certificates	CE, UN38.3

<b>Ordering and Deliverable Part</b>	
Product ordering part	LVTS-512300 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



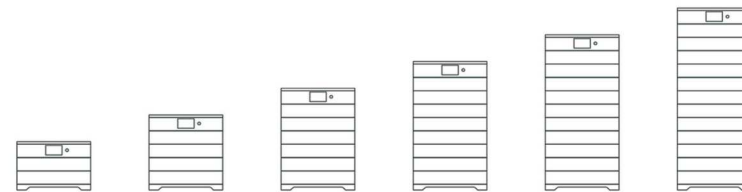
**Smart Display Screen**  
Touchscreen-control.Real-time  
battery status display









**Perfect Compatibility**  
Compatible with mainstream  
inverter brand



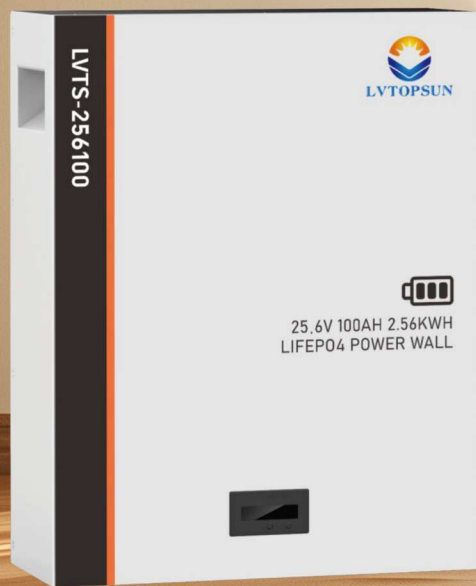
Model	LVTS-512100-1-AIO	LVTS-512100-2-AIO	LVTS-512100-3-AIO	LVTS-512100-4-AIO
<b>Inverter Module AIO-LS-5000W</b>				
Battery input	48VDC,117A			
Type of battery	Lithium			
Rated power	5000VA/5000W			
AC output	230VAC,50/60Hz,22A,1Φ			
AC charger mode				
AC input	230VAC,50/60Hz,40A,1Φ			
Max.ac charge current	80A			
Solar charger mode				
Max.pv Input voltage(VOC)	450VDC			
Max. pv Input current	18A			
MPPT voltage range	120~430VDC			
<b>Battery Module AIO-LVTS-512100</b>				
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	50A	100A	150A	200A
Max charge power	2500W	5000W	7500W	10000W
Max discharge current	100A	200A	200A	200A
Max discharge power	5000W	10000W	10000W	10000W
Short circuit current	350 A			
Display	SOC status indicator, LED indicator			
Communication	RS232,RS485,CAN			
Dimension( W×D×H mm )	650×380×365	650x380x503.5	650x380x642	650x380x780.5
Weight (kg)	45kg	87.5kg	130kg	172.5kg
Working temperature	-20°C~60°C			
Storage temperature	≥25°C,12 months; ≤35 °C,6 months; ≤45 °C,3 months			
Cell Technology	LiFePO <sub>4</sub> , Lithium Iron phosphate			
Cycle life	6000 Cycles @ 90% DOD/25°C/0.5C, 60% EOL			
Scalability	Max 15 batteries in parallel			



 <b>Advanced BMS</b> Pack level active balance	 <b>Easy Installation</b> 20kg control module 40kg battery module	 <b>Flexible Voltage Options</b> Scalable from 102.4V to 614.4V
 <b>High Expansibility</b> Max 16 piles in parallel	 <b>Smart Display Screen</b> Touchscreen-control.Real-time battery status display	 <b>Perfect Compatibility</b> Compatible with mainstream inverter brand

Model	LVTS-5220 -HV2	LVTS-5220 -HV4	LVTS-5220 -HV6	LVTS-5220 -HV8	LVTS-5220 -HV10	LVTS-5220 -HV12
<b>Performance</b>						
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
<b>Communication</b>						
Display	4.3 inch (16:9) Touch screen					
Communication	CAN					
<b>General Specification</b>						
Dimension(W×D×Hmm)	620×380×506	620×380×783	620×380×1060	620×380×1337	620×380×1614	620×380×1891
Weight (Kg)	110	200	290	380	470	560
Installation	Floor stand					
Working temperature	-20°C~60°C					
Storage humidity	≤95% RH					
Warranty	10 years					
Max operating Altitude	≤2000m					
IP rating	IP65					
Cell technology	LiFePO <sub>4</sub> ,Lithium Iron phosphate					
Cycle life	6000 Cycles @ 80% DOD/25°C/0.5C, 60% EOL					
Scalability	Max 16 piles in parallel					
<b>Standard Compliance(more available upon request)</b>						
Certificates	CE, UN38.3					
<b>Ordering and Deliverable Part</b>						
Product ordering part	LVTS-5220-HV battery LVTS-5220-HVMain control Level 3 Parallel box					





**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	LVTS-256200
<b>Performance</b>		
Nominal voltage	25.6Vdc	
Nominal capacity	100Ah	200Ah
Battery energy	25.6V,100Ah,2.56kwh	25.6V,200Ah,5.12kwh
Charge current	50A	100A
Charge power	1280W	2560W
Discharge current	100A	200A
Discharge power	2560W	5120W
Short circuit current	≈2000A	
<b>General Specification</b>		
Dimension( W×D×H mm)	330×135×420mm	440×135×30mm
Weight (Kg)	26kg	52kg
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 <sub>4</sub> , 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	
<b>Standard Compliance (more available upon request)</b>		
Certificates	CE, UN38.3	
<b>Ordering and Deliverable Part</b>		
Product ordering part	LVTS-256100 battery	



**Economic & Affordable**



**High Expansibility**  
Scalable from 1.28kWh to 20.48kWh



**Safe & Reliable**  
Lithium iron phosphate cell  
Cobalt free

Model	LVTS-128100	LVTS-128200
<b>Performance</b>		
Nominal ratings	12.8 V, 100 Ah, 1.28 kWh	12.8V, 200Ah, 2.56kWh
Bulk charge voltage	14 V	
Float charge voltage	13.8 V	
Low voltage	12.8V	
Cutoff voltage	11.6 V	
Charge current	50 A	100 A
Discharge current	100 A	200 A
Short circuit current	≈ 1000 A	≈ 2000 A

<b>General Specification</b>		
Dimension (W×D×H mm)	260×168×210mm	520×168×210mm
Weight (Kg)	9.85kg	26kg
Working temperature	-20°C~60°C	
Operating/storage	≤ 95%RH	
Max operating altitude	≤ 2000m	
IP rating	IP54	
Cell technology	LiFePO <sub>4</sub> , 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
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#### Ordering and Deliverable Part

Product ordering part	LVTS-128100 battery
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