

► **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

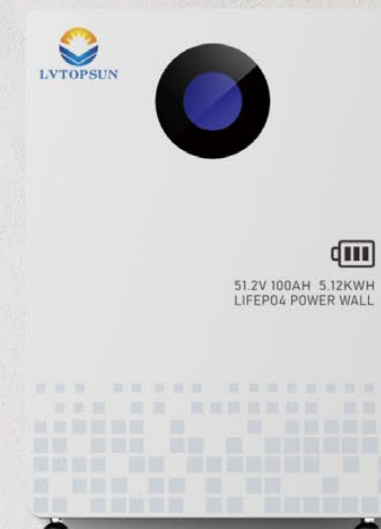
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**GUANGDONG LVTOPSUN
NEW ENERGY CO., LTD**

LITHIUM BATTERY SOLUTIONS PROVIDER

www.lvtopsun.com

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COMPANY PROFILE



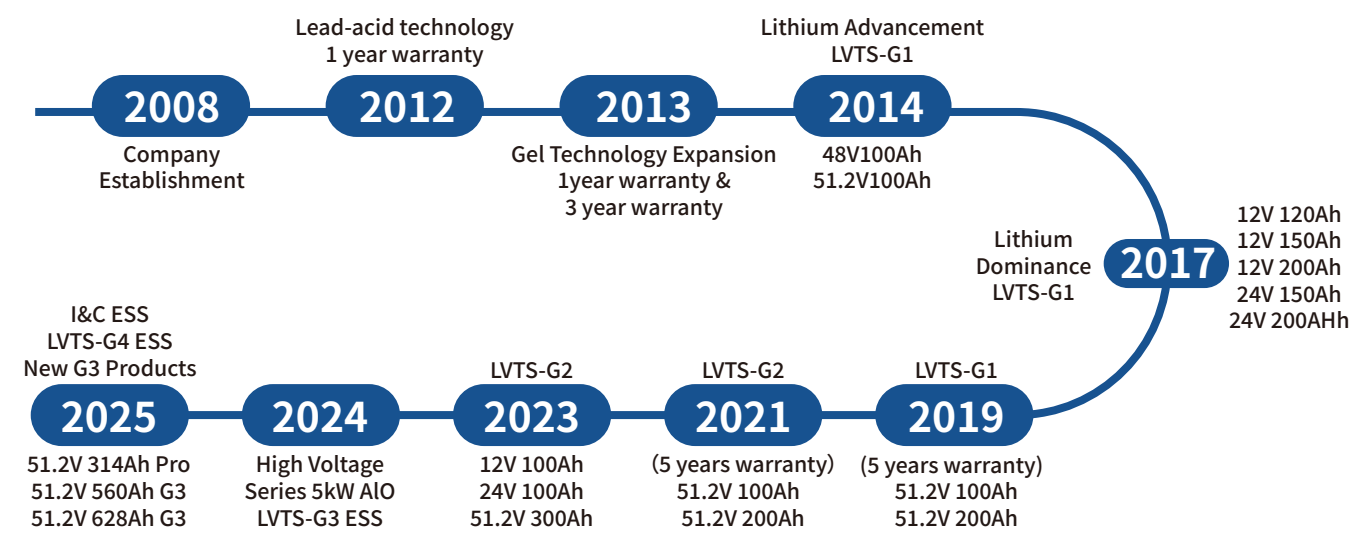
Established in 2008, Guangdong LVTOPSUN new energy Co., Ltd. is a well-known enterprise, dedicated to providing one-stop solution for new energy storage batteries.

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



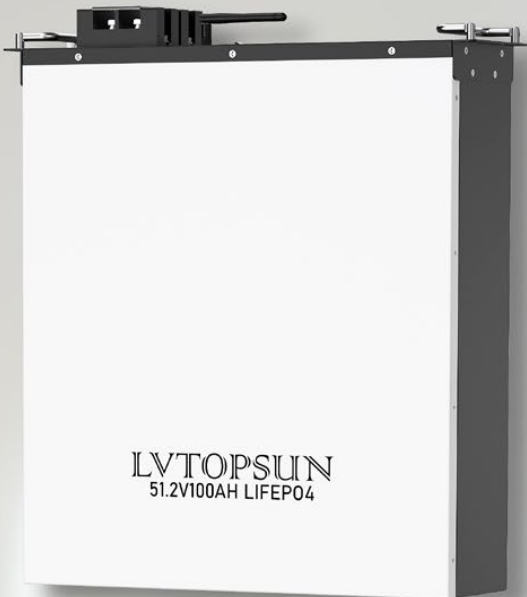
Indicator light display
Touchscreen-control.Real-time battery status display



Perfect Compatibility
Compatible with mainstream inverter brand



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



Model	LV-48100-NS	LVTS-512100-NS
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 statusindicator, 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	
WorkingTemperature	-20℃~55℃	
Storage Temperature	≤25℃,12 months; ≤35℃,6 months; ≤45℃,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℃/0.5C	
Warranty	5 years	
Scalability	Max 15 batteries in parallel	
Ordering and Deliverable Part		
Product ordering part	L48100-NS Battery (cable/wall mount included)	
	LVTS-512100-NS Battery (cable/wall mount included)	



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



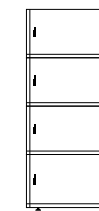
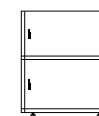
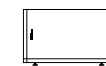
Safe&Reliable

Lithium iron phosphate cell!
Cobalt free



Perfect Compatibility

Compatible with mainstream inverter brand



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 statusindicator, 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~55°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			
Scalability	Max 15 batteries in parallel			
Warranty	10 years			
Ordering and Deliverable Part				
Product ordering part	LVTS 512100 Battery+ Parallel Cable			
	LVTS 512100 Base + Power Cable			



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~55°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
Scalability	Max 15 batteries in parallel
Warranty	5 years
Standard Compliance (More Available Upon Request)	
Certificates	CE, UN38.3
Ordering and Deliverable Part	
Product ordering part	LVTS-512100 Battery (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

Performance

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	160 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
WorkingTemperature	-20°C~55°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
Warranty	5 years
Scalability	Max 63 batteries in parallel

Ordering and Deliverable Part

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



51.2V 228AH 11.67KWH
LIFEPO4 POWER WALL

Model	LVTS-512228-G3
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
WorkingTemperature	-20°C~55°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
Warranty	5 years
Scalability	Max 63 batteries in parallel
Ordering and Deliverable Part	
Product ordering part	LVTS-512228 Battery (cable/wall mount included)



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~55°C
Operating/Storage Humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP20
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	8000 Cycles @ 90% DOD/25°C/0.5C
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 Battery (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~55°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	5 years
Cycle life	8000 Cycles @ 90% DOD/25°C/0.5C

Ordering and Deliverable Part	
Product ordering part	LVTS-512314 Battery (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



Safe&Reliable
Lithium iron phosphate cel!
Cobalt free



Perfect Compatibility
Compatible with major
inverter brand



Model	LVTS-512314-G4
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Performance	
Nominal Voltage	51.2 Vdc
Nominal Capacity	314 Ah
Battery Energy	16.07 kWh
Charge Current	150 A
Charge Power	7680 W
Discharge Current	200 A
Discharge Power	10240 W
Short Circuit Current	540 A

Communication	
Display	SOC status indicator, LED indicator, LCD Display
Communication	RS232, RS485, CAN
Product Features	Automatic sensing fire extinguishing device/Bluetooth/WiFi

General Specification	
Dimension (WxDxH mm)	480x235x874 mm
Weight (Kg)	120 kg
Installation	Floor stand
Working Temperature	-20°C~55°C
Operating/Storage Humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP65
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	8000 Cycles @ 90% DOD/25°C/0.5C
Scalability	Max 63 batteries in parallel
Warranty	10 years

Ordering and Deliverable Part	
Product ordering part	LVTS-512314 Battery (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:0~45°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	8000 Cycles @ 90% DOD/25°C/0.35C
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

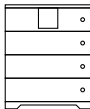
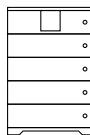
Easy Installation
Stacked design for both battery and inverter

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-A10	LVTS-512100-2-A10	LVTS-512100-3-A10	LVTS-512100-4-A10
Inverter Module A10-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 A10-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	100 A	100 A
Max Charge Power	2500 W	5000 W	7500 W	10000 W
Max Discharge Current	100 A	100 A	100 A	100 A
Max Discharge Power	5000 W	5000 W	5000 W	5000 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℃~55℃			
Storage Temperature	≥25℃12 months; ≤35 ℃,6 months;≤45 ℃,3 months			
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate			
Cycle life	6000 Cycles @ 90% DOD/25℃/0.5C			
Scalability	Max 4 batteries in parallel			
warranty	5 years			



Advanced BMS
Pack level active
balance



Easy Installation
20kg control module
40kg battery module



Flexible Voltage Options
Scalable from 102.4V
to 614.4V



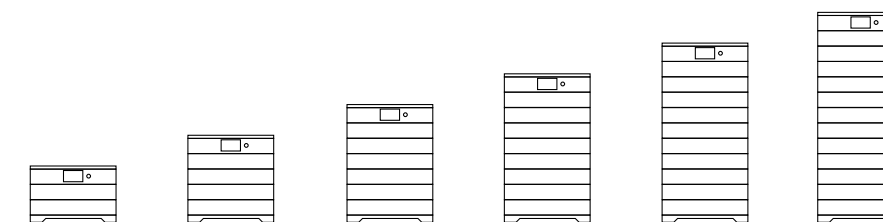
High Expansibility
Max 16 piles in parallel



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



Perfect Compatibility
Compatible with mainstream
inverter brand



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~55°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 @ 90% DOD/25°C/0.5C					
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					



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~55°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
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 5.12kWh 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~55°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			
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-256200 Battery / LVTS-256280 Battery			



Economic&Affordable

High Expansibility

Safe&Reliable
Lithium iron phosphate cell
Cobalt free

Model	LVTS-128100	LVTS-128200	LVTS-128280
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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	≈1500 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~55°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		
Warranty	5 years		
Scalability	Max 4pcs in series		Max 4pcs in parallel

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

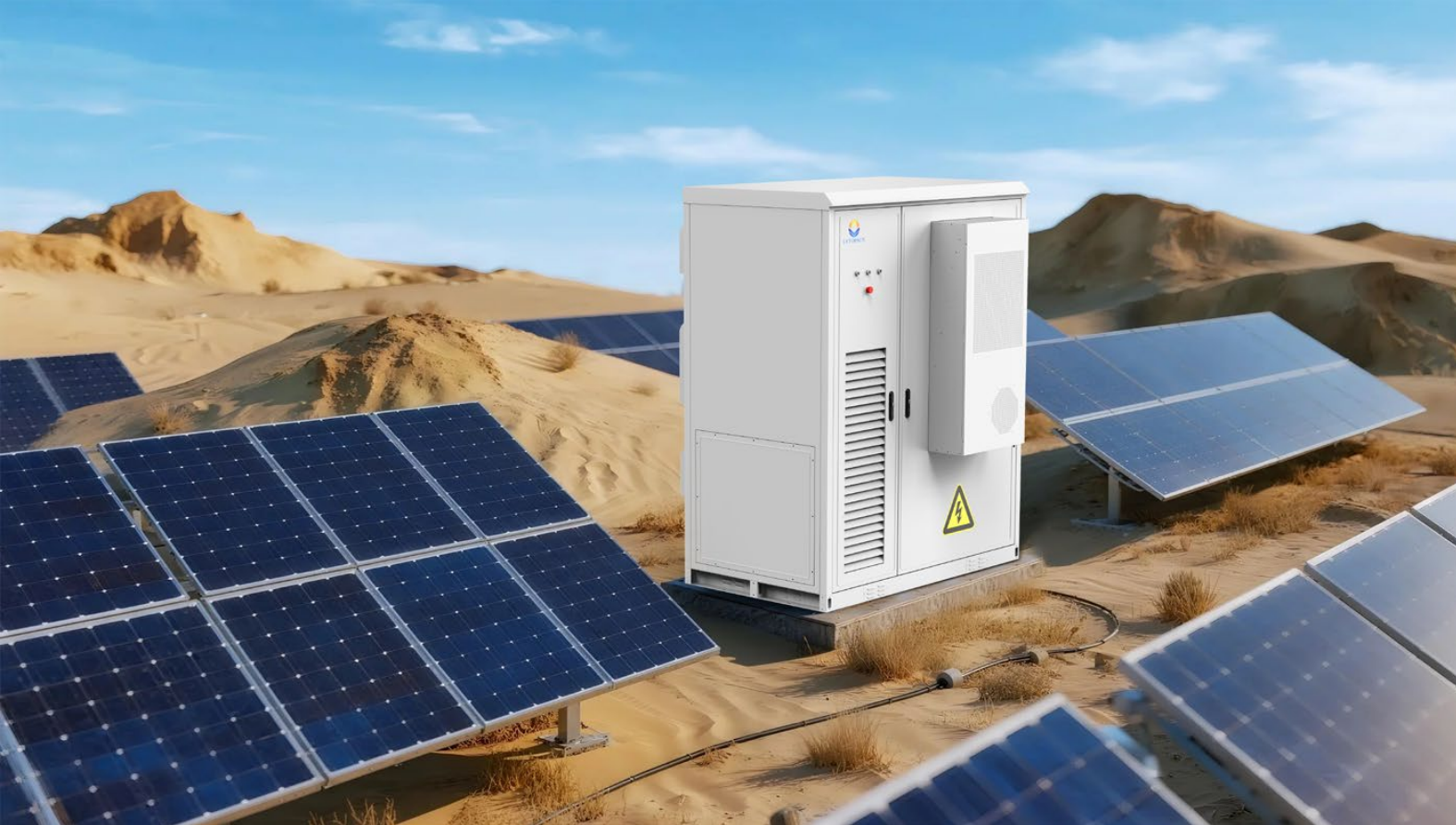
Model	LVTS-256100	LVTS-256200
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Performance		
Nominal Ratings	25.6 V,100 Ah,2.56 kWh	25.6 V,200 Ah,5.12 kWh
Bulk Charge Voltage	28 V	
Float Charge Voltage	27.6 V	
Low Voltage	25.6 V	
Cutoff Voltage	23.2 V	
Charge Current	500 A	100 A
Discharge Current	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~55°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	
Warranty	5 years	
Scalability	Max 2pcs in series	Max 4pcs in parallel

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

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



Model	LVTS-125kW/241kWh
Specifications and parameters	
Norminal Voltage/capacity	768V/314Ah
MPPT	120KW 4 sets of PV input
PCS	AC Input/output power:125kW
STS	200KW
Air conditioning	5kW
BMS	Active balance available
EMS	Monitoring and cloud computing platform available
High voltage Module	Active balance available
Isolated transformer	100kVA
Software	Cloud computing and monitoring platform
Prismatic cells	314Ah BESS dedicated cells
Cabinet	Parameters:L1907*W1100*H2362mm
Fire protection	Second Level fire protection, pack and cluster level, with aerosol, smoke sensing, temperature sensing, sound and light sensing, water immersing.
PACK	Lvtopsun manufactured, 233*480*808mm, air cooling

Model	LVTS-50kW/112kWh
Specifications and parameters	
Norminal Voltage/capacity	358.4V/314Ah
Hybrid inverter	Seven modules form a 358.4V high-voltage system, matched with 50kW hybrid inverter for use.
Air conditioning	2kW
BMS	Active balance available
EMS	Monitoring and cloud computing platform available
High voltage Module	Active balance available
Software	Cloud computing and monitoring platform
Prismatic cells	314Ah BESS dedicated cells
Cabinet	Parameters:to be determined
Fire protection	Second Level fire protection, pack and cluster level, with aerosol, smoke sensing, temperature sensing, sound and light sensing, water immersing.
PACK	Lvtopsun manufactured, 233*480*808mm, air cooling
Composition	Seven modules form a 358.4V high-voltage system, matched with 50kW hybrid inverter for use.



LVTS-3-6KSL-G2
Off-grid Hybrid Inverter
「3/4/5/6kW」

Features



Support Independent Grid/Generator Input

Dual AC inputs and integrated grid-generator switching system



Parallel Connection

Parallel connection with up to 9 units



Smart Load Management

Dual AC outputs design



Faster On/Off-grid Switching

UPS-level switching time: 10ms



Remote Monitoring

Built-in WiFi module for HaiPower App monitoring



Efficient Battery Charge/Discharge

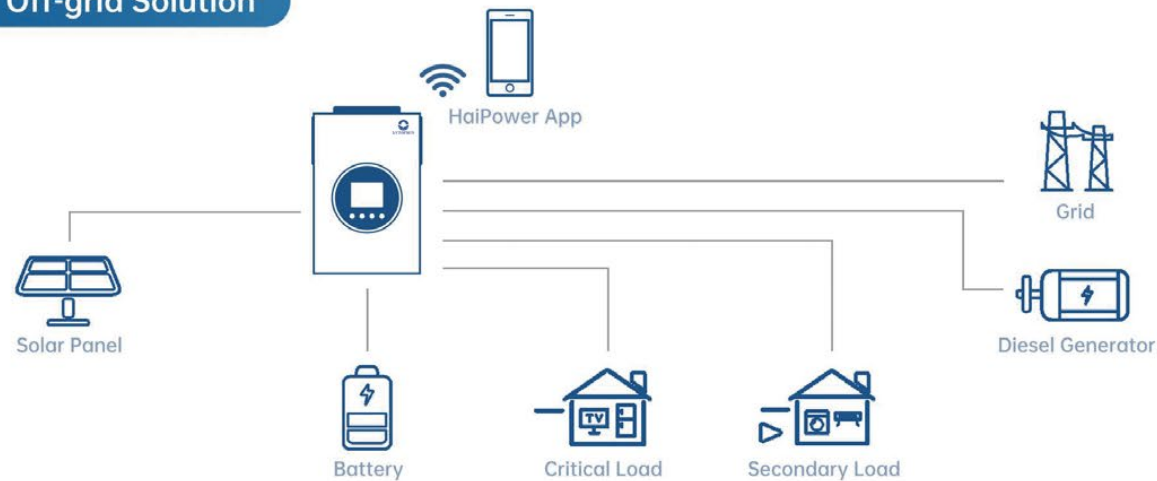
Max. 120A charge current
Max. 137A discharge current



Stylish Design

Larger screen with touch keys and LED ring lights

Off-grid Solution



Specifications

Technical Data	AO-3KSL-G2	AO-4KSL-G2	AO-5KSL-G2	AO-6KSL-G2
Solar Input Data				
Max. PV Input Power	3300W	4400W	6000W	7800W
Max. Input Voltage	500V		550V	
Start-up Voltage		120V		
MPPT Voltage Range	90V~450V		90V~500V	
Max. Input Current per MPPT	18A		27A	
Max. Short Circuit Current per MPPT	23A		32A	
Number of MPPT		1		
AC Input Data (Grid&Generator)				
Nominal Input Voltage		230Vac, L/N/PE		
Input Voltage Range		90~280Vac (APL); 170~280Vac (UPS)		
Max. Input Current		35A		
Nominal Input Power		8050W		
AC Frequency Range		40~65Hz		
Battery Data				
Battery Type		Li-Ion/Lead-acid		
Nominal Battery Voltage	24V		48V	
Battery Voltage Range	20~30V		42~60V	
Max. Discharge Current	137A	137A	115A	137A
Max. Charge/Discharge Power	3000W	3300W	5000W	6000W
Li-Ion Battery Activation		Yes		
Li-Ion Battery Communication		CAN/RS485		
Max. Solar Charge Current	120A	120A	100A	120A
Max. AC Charge Current	100A	100A	80A	100A
Max. Charge Current (PV+AC)	120A	120A	100A	120A
Inverter Output Data				
Nominal Output Power	3000W	4000W	5000W	6000W
Peak Apparent AC Power	6000VA	8000VA	10000VA	12000VA
Nominal AC Voltage		230V		
Nominal Grid Frequency		50/60Hz (Auto Sensing)		
Voltage Waveform		Pure Sine Wave		
Transfer Time		10ms		
Max. Output Current	14A	18A	22A	27A
Overload Protection		30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load		
THDv (@linear load)		<3%		
Efficiency				
Peak Efficiency		94%		
MPPT Efficiency		>99.9%		
Protect				
DC Surge Protection		Yes		
AC Surge Protection		Yes		
AC Short Circuit Protection		Yes		
System Parameters				
Dimension (W*H*D)		333*505*120mm		
Weight		10.6kg		
Relative Humidity		5%~95% (Non-condensing)		
Operating Temperature Range		-10°C~50°C		
Noise Emission		<50dB		
Altitude		4000m		
Cooling Method		Fan Cooling		
Ingress Protection		IP20		
Characteristic				
Number of AC Output		2		
Display		LCD&LED&APP		
Communication Interface		RS485/ USB /CAN/ Wi-Fi		
Parallel Capability	-	-	9	9



Model	LVTS -8K1P-BL	LVTS -10K1P-BL	LVTS -12K1P-BL
Solar Input Data			
Recommended Max. PV Array Size(W)	12000	15000	18000
Max. PV Input Power(W)	10400	13000	15600
Max. Input Voltage(V)	500		
Start-up Voltage(V)	120		
Nominal Input Voltage(V)	370		
M PPT Operating Voltage Range(V)	90~425		
Max. Input Current per M PPT(A)	27+27	27+27+27	27+27+27
Max. Short Circuit Current per M PPT(A)	40+40		
Number of M PPT	2	3	3
Number of Strings per M PPT	2+2	2+2+2	2+2+2
Battery Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range(V)	40~60		
Max. Charge/Discharge Current(A)	190	220	250
Battery Communication	Self-adaption to BM S		
AC Input Data(Grid& Generator)			
Nominal Input Voltage(V)	220/230/240 ,L+ N+ PE		
Input Voltage Range(V)	0.85Un-1.1Un		
Max. AC Current From Utility Grid(A)	36.4/34.8/33.4	45.5/43.5/41.7	54.6/52.2/50
Max AC Current From AC Generator(A)	36.4/34.8/33.4	45.5/43.5/41.7	54.6/52.2/50
Max. Apparent Power from Utility Grid(VA)	8000	10000	12000
Max. Apparent Power from AC generator(VA)	8000	10000	12000
AC Frequency Range(Hz)	50/45-55, 60/55-65		

Model	LVTS -8K1P-BL	LVTS -10K1P-BL	LVTS -12K1P-BL
AC Output Data(On-Grid)			
Nominal Output Power(W)	8000	10000	12000
Max. Apparent Output Power(VA)	8800	11000	13200
Nominal Output Voltage(V)	220/230/240 ,L+ N+ PE		
Nominal Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Nominal Output Current(A)	36.4/34.8/33.4	45.5/43.5/41.7	54.6/52.2/50
Max. Output Current(A)	40/38.3/36.7	50/47.9/45.9	60/57.4/55
Power Factor	0.8 leading~ 0.8 lagging		
THDi(nominal power)	<3%		
AC Output Data(Back-UP)			
Nominal Output Power(W)	8000	10000	12000
Max. Apparent Output Power(VA)	8800	11000	13200
Peak Apparent Power(VA)	2 times of rated, 10s		
Nominal AC Voltage(V)	220/230/240 ,L+ N+ PE		
Nominal Grid Frequency(Hz)	50/60Hz		
Nominal Output Current(A)	36.4/34.8/33.4	45.5/43.5/41.7	54.6/52.2/50
Max. Output Current(A)	40/38.3/36.7	50/47.9/45.9	60/57.4/55
Max. Continuous AC Passthrough(grid to load)(A)	50	60	60
Switch time(ms)	10		
THDv (@linear load)	< 3 %		
Efficiency			
Max. Efficiency	97.6%		
European Efficiency	96.5%		
M PPT Efficiency	>99.9%		
Protect			
PV Reverse Polarity Protection	yes		
Battery Reverse Protection	yes		
Anti-Islanding Protection	yes		
Output Short Protection	yes		
Ground fault monitoring	yes		
Insulation Resistance Monitoring	yes		
Over-current Protection	yes		
Over-temperature Protection	yes		
AC/DC Surge Protection	TYPE II(DC), TYPE II(AC)		
AFCI Protection	Optional		
DC Switch	yes		
Residual Current Monitoring	yes		
Grid Monitoring	yes		
General Data			
Dimension (W*H*D)(mm)	420×680×252(Excluding connectors and brackets)		
Weight(kg)	34.5		
Relative Humidity	0~100%		
Operating Temperature Range(°C)	-40 to +60°C, >45°C Derating		
Noise Emission(dB)	< 45		
Altitude(m)	2000		
Cooling Method	Intelligent Air Cooling		
Ingress Protection	IP65		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Topology	Non-Isolated		
Communication Interface	RS485/CAN/Bluetooth/WIFI, LAN/4G/GPRS(optional)		
Power grid side energy detection method	1CT , Meter(optional)		
Display	LCD & APP		
PV Connector	MC4		
Battery Connector	Connector		
AC Connector	Connector		