

LVTS-(48~241)kWh-HV V2

It uses a high capacity 314Ah battery to support 6 clusters in parallel with a Maximum capacity of 1.446MWh.



5 Unique Advantages

- ★ Ultra Safe: Intelligent fire extinguishing system, detects and extinguishes fire in 5S
- ★ Easy Installation: cable connection between modules, plug-and-play
- ★ Long Life: LFP cells, 8000+ cycles, 10 years long life cycles
- ★ Active Cell Balancing: Maximum balancing current: 2.2A, Greatly increase the capacity utilization, rate of the battery pack
- ★ Fast Charge/Discharge: Max continuous charge/discharge current: Charge 0.5C(157A), Discharge 0.7C (200A)

3 Leading Advantages

- Uses advanced 314Ah cells, delivering outstanding performance with long-term durability
- Up to 6 clusters in parallel, 48.228KWh-1.446MWh capacity^[1]
- Supports remote monitoring and OTA upgrades on the Storage Cloud app

Model

LVTS-(48~241)kWh-HV V2

Battery Type	LiFePO ₄ (LFP)
Nominal Battery Energy	16.076kWh
Usable Battery Energy	15.272kWh
Nominal Capacity	314Ah
Nominal Voltage	51.2V
Module Number per Cluster	3~15Pcs
Operating Voltage	134.4V~864V
System Energy Range	48.228kWh~1.446MWh
Recommended Charge & Discharge C Rate	0.5C(157A)
Max.Charge & Discharge C Rate	Charge 0.5C(157A), Discharge 0.7C(200A)
Peak Discharge Current (25°C)	314A
Recommended Charge & Discharge Power	8.038KW
Max. Discharge Power	10.239KW
Depth of Discharge (DOD)	90% DOD/25°C/0.5C
Charging Temp. Range	0°C~55°C
Discharging Temp. Range	-20°C~55°C
Net Weight (kg) ^[2]	53.5+140*n
Single Cluster Dimension (W/D/H) ^[3]	590/865/400+270*n(With bracket and cover plate)
Protection Level	IP20
Communication	CAN/RS485
Cycle Life ^[4]	≥8000 Cycles
User Interface	WIFI+APP
Safety Protection	Built-in aerosol fire extinguisher
Cooling method	Natural cooling
Installation	Cable stacking
Expansion	Up to 6 clusters in parallel
Warranty Period ^[5]	5 Years
Battery Module Name	LVTS-512314-HV V2
Certification & Safety Standard	UN38.3, CE
Compatible Inverters	Solis/Deye

Modul

LVTS503-1500V-250A

Operating Voltage	130~1500
Maximum Continuous Current	250A
Dimension (W/D/H)	590/865/250(With bracket and cover plate)
Weight	35kg
Protection Level	IP20

[1] When cluster in parallel >6 units, use of a LVTOPSUN power distribution cabinet is recommended.

[2] Net Weight of Expansion Base and Expansion Upper Cover: 18.5kg.

[3] Height of Expansion Upper Cover: 80mm, "n" stands for the number of battery modules, up to a maximum of 8. If the installation is on an upper floor, you will need to evaluate the floor weighing before determining the number of stacks.

[4] Test conditions: 0.2C Charging & Discharging, 25°C, 90%DOD, 70%EOL

[5] Refer to LVTOPSUN Warranty Letter

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Information might be subject to change without notice during product improvement.