Lithium Valley technology





Residential BESS

LV-AST-1L10K5.12Aa **51.2V 100Ah Single module**

An efficient, safe, and intelligent home energy storage solution, featuring a convenient modular battery design and integrated inverter. Seamlessly switch between power sources, remotely control your energy needs, and customize intelligent operating plans.





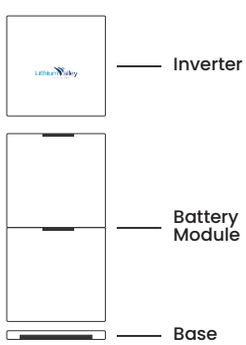


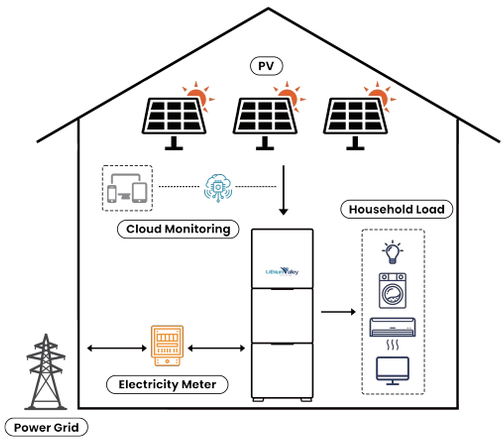
Each set of all-in-one machine is equipped with a Hybrid off-grid energy storage inverter, optional 1-3 layers of battery cabinets, each battery cabinet can be equipped with 1-2 battery packs, supporting 10.24~30.72 kWh of electricity, for users to choose flexibly. The battery pack uses high-performance and high-safety lithium iron phosphate batteries. Each battery pack has a battery management system (BMS). BMS can realize comprehensive control and protection of the energy storage battery, extend battery life.

DONGUAN LITHIUM VALLEY ENERGY CO., LTD .

All-in-one Stackable ESS

- **Flexible configuration and easy installation**
  Modular design, freely configurable according to different needs
- **Multi-mode switching**
  Hybrid, off-grid and grid-connected dual output mode
- **Remote Monitoring**
  APP intelligent control, efficient and convenient (WiFi, bluetooth)
- **Home Energy Smart Management**
  Intelligent configuration of energy storage charging and discharging strategies to maximize integrated value





Dimensions







Battery	LV-AST-1L10K5.12Aa				
Number of layers	1 layer	2 layers		3 layers	
Model	51.2V200Ah	51.2V300Ah	51.2V400Ah	51.2V500Ah	51.2V600Ah
Energy(kWh)	10.24	15.36	20.48	25.6	30.72
Dimension (L*W*H)mm	653*320*1406	653*320*1962		653*320*2518	
Weight(KG)	170	228	278	345	395
Operating Voltage Range(V)	43.2V~56.16				
Cell technology	Lithium-iron phosphate (LiFePO4)				
Life cycle	6000 times @80%DOD 25℃ 0.5C				
Max. charge/discharge current (A)	190				
Input(PV)					
Max. power(kW)	12		13		
Max. DC voltage (V)	500				
MPPT voltage range(V)	120~500				
Max.Input current of single MPPT(A)	14				
MPPT tracker/strings	4/1				
GRID Input/Output					
Rated output power(kVA)	8		10		
Max. apparent Power (kVA)	8.8		11		
Max. output current(A)	38.3		47.8		
Ac output voltage(V)	120/240(split phase)				
Frequency (Hz)	50/60				
PF	-0.8～+0.8				
THDi	< 3%				
AC output topology	Split phase				
Output(EPS)					
Rated power(kVA)	8		10		
Rated output current(A)	33.3		41.6		
Rated output voltage(V)	120/240 (split phase)				
Rated frequency(Hz)	50/60				
Automatic switching time(ms)	<20				
THDI	< 2%				
Overload capacity	125%,60S/150%,1S				
General Data					
Display	LCD				
Communication	Modbus, RS485, WIFI, 4G				
Operating temperature	-20℃～55℃				
Environment	Indoor				
Relative humidity	5%～95%				
Max. efficiency	≥98.2%				
North American efficiency	≥97.2%				
Cooling	Natural cooling				
Certification	UL1973, UL9540A, UL9540, UN38.3, MSDS				

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