

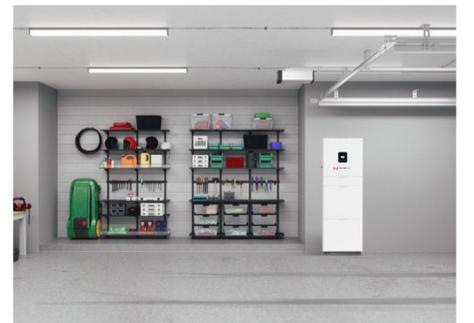


Residential BESS

LV-AST-3H12K5.32Aa

102.4V 52Ah 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.



High-voltage LiFePO4 battery, single module is 102.4V 52Ah.

1 to 2 layers recommended, each layer 2 modules loaded.

Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Life Cycle and Power.

Applicable off grid or hybrid on and off-Grid solar energy storage system.

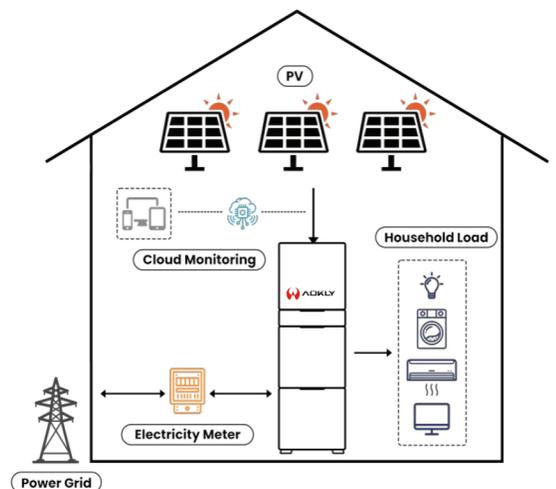
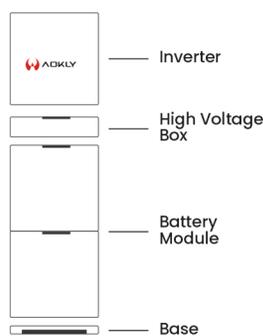
Self-Consumption Optimization for Residential and Commercial Applications.

Modular Design Simplifies Transportation and Installation.

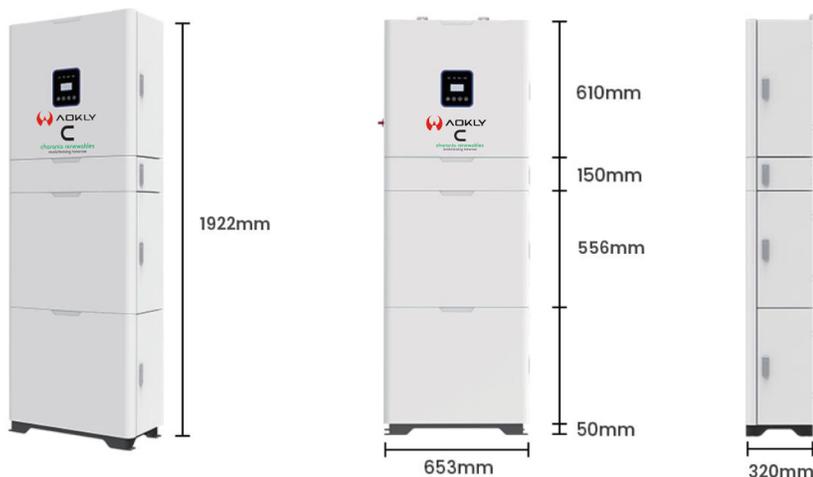
GUANGDONG AOKLY GROUP CO.,LTD.

High-voltage 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-3H12K5.32A	
Number of layers	1 layer	2 layers	
Model	204.8V50Ah	307.2V50Ah	409.6V50Ah
Energy(kWh)	10.24	15.36	20.48
Operating Voltage Range(V)	179.2~224.64	268.8~336.9	358.4~449.2
Weight(KG)	180	240	285
Dimension (L*W*H)mm	653*320*1366	653*320*1922	
Cell technology	Lithium-iron phosphate (LiFePO4)		
Life cycle	6000 times @80%DOD 25°C 0.5C		
Rated charge/discharge current(A)	50A		
Input (PV)			
Rated charge/discharge current(A)	15		
Max. DC voltage(V)	1000		
MPPT voltage range(V)	180~850		
Max.input current of single MPPT(A)	13		
MPPT tracker/strings	2/1		
GRID Input			
Rated output power(kVA)	12		
Max. output current(A)	17.3		
Grid voltage/range(V)	400/360~440		
Frequency (Hz)	50/60		
Power factor	-0.8~+0.8		
THDI	<3%		
AC output topology	3W+N+PE		
EPS output			
Rated power(kVA)	12		
Rated output voltage(V)	400		
Max. output current(A)	17.3		
Rated frequency(Hz)	50/60		
Automatic switching time(ms)	<20		
THDI	<2%		
Overload capacity	110%, 30S/120%, 10S/150%, 0.02S		
General Data			
Battery charge / discharge efficiency	96.7%		
DC Max. efficiency	98.2%		
Europe efficiency	97.5%		
MPPT efficiency	99.5%		
Ingress protection	IP65		
Noise emission(dB)	<35		
Operation temperature	-25°C~ 60°C		
Cooling	Natural Cooling		
Relative Humidity	0 ~95%(non-condensing)		