

High-voltage All-in-one ESS

Equipped with a three-phase high-voltage inverter, the 25KWh high-voltage energy storage all-in-one is a safe, reliable and clean power supply system. The BYD batteries and the highly reliable BMS system ensure the safety of the system. The built-in high-precision meter and CT prevent backflow and provide load power monitoring, making the all-in-one more safe and reliable.

The high-voltage energy storage all-in-one is IP65 rated and can be monitored wirelessly using Wi-Fi and GPRS. It also offers multiple operating modes to meet different user needs, supports seamless switching between off-grid and on-grid, and can be charged by PV or utility power.



Modular battery design, each system supports 2-5 battery units



IP65 dust- and water-proof, designed for both indoor and outdoor installation



All-in-one design, easy installation

Technical Indicator

Model	A12-025KHAA	A12-025KHA1	A12-025KHA2
PV Input			
Max. Power	12KW	15KW	18W
Max. DC Voltage	1000V		
MPPT Voltage Range	180V-850V		
Max.Input Current of Single MPPT	13A		
MPPT Tracker/Strings	2/1		
AC Output			
Rated Output Power	8KVA	10KVA	12KVA
Max. Output Current	12.7A	15.9A	19.1A
Grid Voltage Range	400V /360V~440V		
Frequency	50 /60Hz		
PF	1 (0.8lagging-0.8leading)		
THDI	<3%		
AC Output Topology	3W+N+PE		
EPS Output			
Rated Power	8.8KVA	11KVA	13.2KVA
Rated Output Voltage	400Vac		
Rated Output Current	12.7A	15.9A	19.1A
Rated Frequency	50Hz /60Hz		
Automatic Switching Time	<20ms		
THDU	<2%		
Overload Capacity	110%, 30S/120%, 10S/150%, 0.02S		
Battery Technical Parameter			
Battery Capacity	512V 50Ah		
Battery Energy	25KWh		
MAX. Parallel Batteries	5 units		
Service Life	> 10 years (25°C/77F)		
Rated Charge/Discharge Current	40A		
Communication	CAN/RS485		
General Data			
Euro Efficiency	97.2%	97.5%	97.5%
MPPT Efficiency	99.5%	99.5%	99.5%
IP Grade	IP65		
Noise Emission (Typical)	<60dB		
Operation Temperature	-10 ~ +60°C		
Cooling	Air cooling		
Relative Humidity	15%~85% (non-condensing)		
Operating Altitude	2000m(>2,000 Derating)		
Dimensions (L*W*Hmm)	800*600*1833		
Weight (kg)	Customized		
Inverter Topology	<3W		
Display and Communication			
Display	LCD		
Interface: RS485/Wifi/LAN/CAN	yes /opt/opt/yes		
Safety Standard	IEC 62109-1&-2, IEC 62477, CE-EMC		