

AGAVE-SH

Home Battery Energy Storage System

ecactus



Product Introduction

Agave-SH, a hybrid all-in-one BESS, compatible with high voltage LFP battery system, can achieve the best function to maximize clean solar power usage for your home while maintaining a sleek and professional look and making BESS installation easier than ever.

Convenient

- Battery pre-installed.

Quiet

- Less than 25 dB, no noise pollution.

Flexible

- IP65, indoor or outdoor applications.
- Inverter up to 6kW, battery capacity up to 10kWh.

Adaptative

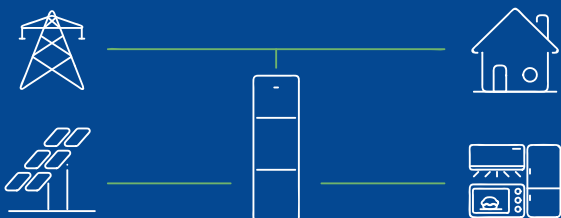
- Self-power, backup, and load shifting modes.

Independent

- No additional modules and inverters are required.

Smart

- Support VPP and IOT.



- Agave-SH will store photovoltaic or grid energy. If there is not enough solar energy to support consumption, the stored battery power will be discharged by Agave-SH to meet the power demand.
- Autonomous strategy, automatically optimising energy use based on the user's needs and preferences.

Text and images correspond to the current state of technology at the time of printing. Subject to modifications. All information is without guarantee in spite of careful editing- liability excluded.

Agave-SH Series

Technical Specifications



Model	WH- SPHA3.6H- 5.12kWh WH- SPHA3.6H-10.24kWh		WH- SPHA4.6H- 5.12kWh* WH- SPHA4.6H-10.24kWh*		WH- SPHA5.0H- 5.12kWh WH- SPHA5.0H-10.24kWh		WH- SPHA6.0H- 5.12kWh WH- SPHA6.0H-10.24kWh	
PV Input								
Absolute Max. Voltage (V)					600			
MPPT Voltage Range (V)					100..550			
Max. DC Input Power (W)	4800		6200		6650		8000	
Start-up Voltage (V)					90			
Rated Operating Voltage (V)					360			
Max. Input Current (A)					12.5/12.5			
Max. Inverter Backfeed Current to Array (A)					0			
Isc PV (A)					18/18			
No. of MPP Trackers					2			
No. of Strings per MPP Tracker					1			
Battery Model			WH-BXB5.12			WH-BXB10.24		
Battery Capacity	LFP 5.12kWh						LFP 10.24kWh	
Nominal Battery Voltage (V)	204.8						409.6	
Battery Voltage Range (V)	160..227.2						320..454.4	
Max. Charge/Discharge Current (A)				25/25				
Depth of Discharge				90%				
AC Input/Output								
Rated Output Power (W)	3600		4600		5000		6000	
Rated Apparent Power to Grid (VA)	3600		4600		5000		6000	
Max. Apparent Power to Grid (VA)	3600		4600		5000		6000	
Max. Apparent Power from Grid (VA)	7200		9200		10000		12000	
Rated Voltage (V)				220/230/240				
Rated Frequency (Hz)				50/60				
Rated AC Current to Grid (A)	15.6		20		21.7		26.1	
Max. output current (A)	17.2		22		23.9		28.7	
Max. Current from Grid (A)	31.2		40		43.4		52.2	
Max. Output Fault Current (A)				57 (peak), 40 (rms)				
AC Output Max. Output Overcurrent Protection (A)				40				
AC Input Power Factor				-0.8..+0.8				
AC Output Power Factor				1 (-0.8..+0.8 adjustable)				
THDi				<3%				
EPS Output								
Max. Output Power (W)	3600		4600		5000		6000	
Rated Apparent Power (VA)	4320		5520		6000		7200	
Max. Apparent Power (VA)	4320		5520		6000		7200	
Rated Voltage (V)				230 (±2%)				
Nominal Frequency (Hz)				50/60 (±0.2%)				
Max. Output Current (A)	18.8		24		26.1		31.3	
Max. Output Fault Current (A)				57 (peak), 40 (rms)				
EPS Output Maxi. Output Overcurrent Protection (A)				40				
Switch Time (ms)				<10				
THDv @Linear Load				<2%				
Power Factor				-0.8..+0.8				
Efficiency								
PV Max. Efficiency				97.6%				
PV Europe Efficiency				97%				
PV Max. MPPT Efficiency				99.9%				
Battery Charge by PV Max. Efficiency				98%				
Battery Discharge Efficiency				96.7%				
Protection								
Over/Under Voltage Protection				Yes				
DC Isolation Protection				Yes				
DC Injection Monitoring				Yes				
Residual Current Detection				Yes				
Anti-islanding Protection				Yes				
Over Load Protection				Yes				
Battery Input Reverse Polarity Protection				Yes				
PV Reverse Polarity Protection				Yes				
Surge Protection				Yes				
Over Heat Protection				Yes				
General Data			WH-BXB5.12			WH-BXB10.24		
Dimension (W*D*H)(mm)	550*233*1125						550*233*1750	
Dimension of Packing (W*D*H)(mm)	655*302*1390						655*302*2085	
Net Weight (kg)	68						115	
Gross Weight (kg)	78						130	
Operation Temp (°C)				-10..+55				
Relative Humidity				0..95%				
Altitude (m)				≤3000				
Ingress Protection				IP65				
Cooling				Natural				
Inverter Topology				Non-isolated				
Over Voltage category				III (AC), II (DC)				
Protective Class				Class I				
Active Anti-islanding Method				frequency shift				
Human Interface				LED/APP				
BMS Communication Interface				RS485/CAN				
Meter Communication Interface				RS485				
Noise Emission (dB)				<25				
Standby Power Consumption (W)				<5				
Safety and Approvals								
Safety				UN 38.3, IEC 62619, IEC 62100, IEC 62109				
Country				AS/NZS 4772.2, EN 50549-1, C 10/11, VDE 4105, VDE 0124, MEA/PEA, XP C 15-712-3, VDE 0126, PDC, EN50549-1/RTG/PTPIREE, G98/G99, RD 1699, CEI 0-21, EIFS, PPDs, NRS 097				

Smax=Srated for AS/NZS 4772.2
*only for Germany