AGAVE-SH

Home Battery Energy Storage System For AU

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
Inverter up to 6kW, battery capacity up to 10kWh

Adaptative

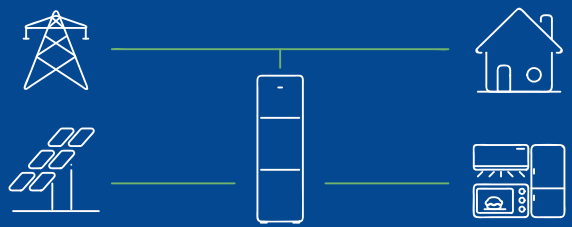
Self-power, backup, and load shifting modes

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.

Agave-SH Series

Technical parameters

Model	WH-SPHA3.6H-5.12kWh WH-SPHA3.6H-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 (d.c.V)		600	
MPPT Voltage Range (d.c.V)		100...550	
Max. DC Input Power (W)	4800	6650	8000
Start-up Voltage (d.c.V)		90	
Rated Operating Voltage (d.c.V)		360	
Max. Input Current (d.c.A)		12.5/12.5	
Max. inverter backfeed current to array (d.c.A)		0	
Isc PV (d.c.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
Usable Capacity	4.608kWh		9.216kWh
Nominal Battery Voltage (d.c.V)	204.8		409.6
Battery Voltage Range (d.c.V)	160...227.2		320...454.4
Max. Charge/Discharge Current (d.c.A)		25/25	
Depth of Discharge (%)		90	
AC Input/Output			
Rated output Power (W)	3600	5000	6000
Rated Apparent Power to Grid (VA)	3600	5000	6000
Max. Apparent Power to Grid (VA)	3600	5000	6000
Max. Apparent Power from Grid (VA)	4320	6000	7200
Rated Voltage (a.c.V)		220/230/240	
Rated Frequency (Hz)		50/60	
Rated AC Current to Grid (a.c.A)	15.6	21.7	26.1
Max. output current (a.c.A)	17.2	23.9	28.7
Max. Current from Grid (a.c.A)	18.8	26.1	31.3
Inrush current (a.c.A)		16 a.c.A (peak), 11.3 us (duration)	
Max. output fault current (a.c.A)		57 (peak), 40 (rms)	
AC output Maximum output overcurrent protection (a.c.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	5000	6000
Rated Apparent Power (VA)	4320	6000	7200
Max. Apparent Power (VA)	4320	6000	7200
Rated Voltage (a.c.V)		230 (±2%)	
Norminal Frequency (Hz)		50/60 (±0.2%)	
Max. Output Current (a.c.A)	18.8	26.1	31.3
Max. output fault current (a.c.A)		57 (peak), 40 (rms)	
EPS output Maximum output overcurrent protection (a.c.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 × 1125mm		550 × 233 × 1750mm
Dimension of Packing (W/D/H)(mm)	655 × 302 × 1390mm		655 × 302 × 2085mm
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 4777.2	

Smax=Srated for AS/NZS 4777.2
Made in China