

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

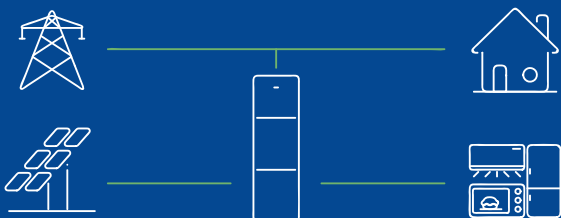
Self-power, backup, and load
shifting modes

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	
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			

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