

# AGAVE

Home Battery Energy Storage System

eCACTUS



## Product Introduction

Agave, 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.

### Convenient

Heat stimulation for the best layout.

### Quiet

Less than 25 db, no noise pollution.

### Flexible

IP65 up to 6kW, 5/10kWh optional.

### Adaptative

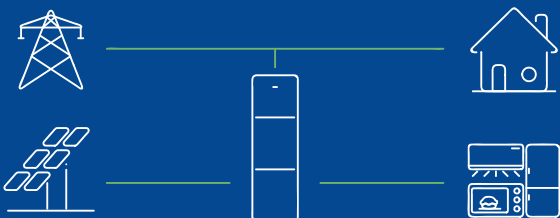
Self-power, backup, and load shifting modes.

### Independent

No additional modules and inverters are required.

### Smart

Support VPP and AIOT.



- Agave will store photovoltaic or grid energy. If there is not enough solar energy to support consumption, the battery will be discharged by Agave to meet the power demand.
- Autonomous strategy.

# Agave Series

## Technical parameters



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
<b>PV Input</b>				
Absolute max Voltage [d.c.V]			600	
MPPT Voltage Range [d.c.V]			100..550	
Max DC Input Power [W]	4800	6200		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	
<b>Battery Model</b>				
Battery Capacity	WH-BXB5.12 LiFePO4 5.12kWh		WH-BXB10.24 LiFePO4 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	
<b>AC Input/Output</b>				
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 [a.c.V]	220/230/240			
Rated Frequency [Hz]	50/60			
Rated AC Current to Grid [a.c.V]	15.6	20	21.7	26.1
Max. output current [a.c.V]	17.2	22	23.9	28.7
Max Current from Grid [a.c.A]	31.2	40	43.4	52.2
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	I(-0.8..+0.8 adjustable)			
THDi	< 3%			
<b>EPS Output (With Battery)</b>				
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 [a.c.V]	230 (±2%)			
Nominal Frequency [Hz]	50/60 (±0.2%)			
Max Output Current [a.c.A]	18.8	24	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)			
EPS output Maximum output overcurrent protection[a.c.A]	40			
Switch time [ms]	< 10			
THDv @ Linear Load [%]	< 2			
Power Factor	-0.8..+0.8			
<b>Efficiency</b>				
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			
<b>Protection</b>				
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			
<b>General Data</b>				
Dimension (W/D/H)[mm]	WH-BXB5.12 550*233*1125		WH-BXB10.24 550*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			
<b>Safety and Approvals</b>				
Safety	IEC62040:1:2019 AS/NZS 4777.2:2020 IEC 62109-1&2 IEC62619 UN38.3 IEC60730-1			
EMC	EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021			

Smax=Srated for AS/NZS 4777.2  
\*only for Germany