

# AGAVE-Residential ESS

Hybrid All In One Home Battery Energy Storage System

eCACTUS



## Product Introduction

Agave is a hybrid All In One battery energy storage system designed for the future. The extreme performance, smart design and compact installation will help you achieve greater power independence! Agave enables a smarter and greener way of living.

### Convenient

Heat simulation for the best layout

### Quiet

Less than 25 dB,  
minimal noise pollution

### Flexible

IP65  
inverter up to 6kW,  
battery 5 or 10kWh

### Adaptative

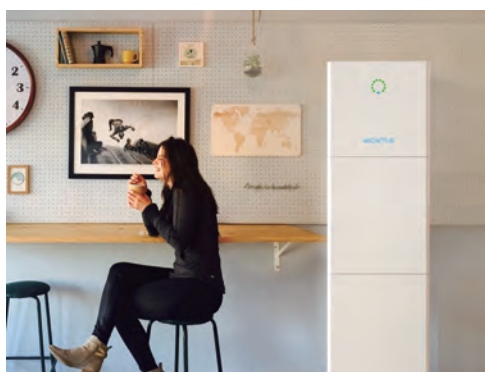
Self-power, backup, and load shifting modes

### Independent

No additional modules and inverters are required

### Smart

Support VPP and AIOT  
(Artificial Intelligence of Things)



- Distributor for UK: **eCactus Solar Limited**  
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# Agave Series

## Technical parameters



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-typability excluded.

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	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 MPPT Trackers			2	
NO.of Strings per MPPT Tracker			1	
<b>Battery Model</b>				
	WH-BXB5.12			WH-BXB10.24
Battery Capacity	LiFePO4 5.12kWh			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
Cycling times				6500
<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.A)	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				1 (-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%)
Norminal 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>				
	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
<b>Safety and Approvals</b>				
Safety				IEC62040:1:2019 IEC 62109-1&-2 IEC62619 UN38.3 IEC60730-1 G99
EMC				EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021
Country				AS/NZS 4777.2:2020 VDE-AR-N 4105:2018-II MEA:2015 PEA:2016 EN 50549-2:2019 EN 50549-1:Poland deviation G99/I-6:2020 G98/I-6:2021 RD1699+UNE Distribution Code VDE0126+UTE C10/II: 2021