

# 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



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>				
	<b>WH-BXB5.12</b>		<b>WH-BXB10.24</b>	
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>				
	<b>WH-BXB5.12</b>		<b>WH-BXB10.24</b>	
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	IEC62040:12019 IEC 62109-1&2			
EMC	IEC62619 UN38.3 IEC60730-1 G99			
Country	EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021			
	AS/NZS 4777.2:2020 VDE-AR-N 4105:2018-II MEA:2015 PEA:2016 EN 50549-2:2019 EN 50549-1:Poland deviation G99/1-6:2020 G98/1-6:2020 RD1699+UNE Distribution Code VDE0126+UTE C10/11: 2021			

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