

AGAVE

Home Battery Energy Storage System

eCACTUS
www.ideasolar.it



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 simulation for the best layout

Quiet

Less than 25 dB,
no noise pollution

Flexible

IP65 up to 6kW, 5/10kWh optional

Adaptative

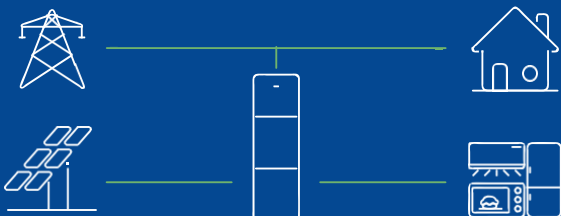
Self-power, backup, and load shifting modes

Independent

No additional modules and inverters are required

Smart

Support VPP and AIOT



- Agave will store photovoltaic ongrid 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
PV Input				
AbsolutemaxVoltage(d.c.V)			600	
MPPTVoltageRange(d.c.V)			100..550	
MaxDCInputPower(W)	4800	6200	6650	8000
Start-upVoltage(d.c.V)			90	
RatedOperatingVoltage(d.c.V)			360	
MaxInputCurrent(d.c.A)			12.5/12.5	
Maxinverterbackfeedcurrenttoarray(d.c.A)			0	
IscPV(d.c.A)			18/18	
NO. of MPPT Trackers			2	
NO. of Strings per MPPT Tracker			1	
Battery Model				
	WH-BXB5.12		WH-BXB10.24	
Battery Capacity	LiFePO45.12kWh		LiFePO410.24kWh	
NominalBatteryVoltage(d.c.V)	204.8		409.6	
BatteryVoltageRange(d.c.V)	160..227.2		320...454.4	
Max.Charge/DischargeCurrent(d.c.A)			25/25	
Cycling times			6500	
AC Input/Output				
Rated output Power (W)	3600	4600	5000	6000
Rated Apparent Power to Grid (VA)	3600	4600	5000	6000
MaxApparentPowerToGrid(VA)	3600	4600	5000	6000
MaxApparentPowerfromGrid(VA)	7200	9200	10000	12000
RatedVoltage(a.c.V)	220/230/240			
Rated Frequency (Hz)	50/60			
RatedACCurrenttoGrid(a.c.V)	15.6	20	21.7	26.1
Max.outputcurrent(a.c.A)	17.2	22	23.9	28.7
Max.CurrentfromGrid(a.c.A)	31.2	40	43.4	52.2
Inrushcurrent(a.c.A)	16 a.c.A (peak), 11.3 us (duration)			
Max.outputfaultcurrent(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...+0.8adjustable)			
THDi	<3%			
EPS Output (With Battery)				
Max.OutputPower(W)	3600	4600	5000	6000
Rated Apparent Power (VA)	4320	5520	6000	7200
MaxApparentPower(VA)	4320	5520	6000	7200
RatedVoltage(a.c.V)	230 (±2%)			
Norminal Frequency (Hz)	50/60(±0.2%)			
Max.OutputCurrent(a.c.A)	18.8	24	26.1	31.3
Inrushcurrent(a.c.A)	16a.c.A(peak),11.3us(duration)			
Max.outputfaultcurrent(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				
PVMaxEfficiency(%)	97.6			
PV Europe Efficiency (%)	97			
PVMaxMPPTEfficiency(%)	99.9			
BatteryChargebyPVMaxEfficiency(%)	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*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) _C	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	IEC62040:12019IEC62109-1&-2 IEC626:9UN383IEC60730-1			
EMC	ENIEC6:000-6-22019ENIEC6:000-6-3:2021			
Country	AS/NZS 4777.2:2020 VDE-AR-N 4105:2018-11 MEA:2015 PEA:2016 EN 50549-2:2019 EN 50549-1+Poland deviation G99/1-6:2020 G98/1-6:2021 RD1699+UNE Distribution Code VDE0126+UTE C10/11: 2021			

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