

# AGAVE-SH-PLUS

Home Battery Energy Storage System

ECACTUS



Decoupling design

Support storing energy from diesel generator



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## Product Introduction

Agave-SH-Plus, a brand new single phase hybrid all-in-one BESS, is best for all electric vehicle owners. It fully meets your needs of daily charging at home after get off work. Gain higher battery capacity with better home energy protection.

### Pioneer

Lego-style design, esay to install  
Decoupling design, esay to maintain

### Powerful

Higher weight power density,  
>95Wh/kg, Up to 26.4kWh

### Protectable

PPB level to ensure TWH safety,  
10 years reliability

### Elegant

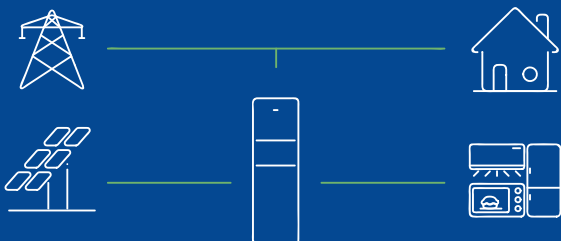
Easy work in cold and heat,  
operating between  
-20°C~60°C, IP65

### Energetic

92% DOD, Quick CHG and DCHG,  
more energy each time

### Effortless

Remote update & service by  
ECOS, always fresh



- Switching time <10ms, enjoy your uninterrupted life.
- Support VPP and IOT.

# Agave-SH-Plus Series



## Technical parameters

Model	WH-SHC362-13.2kWh/WH-SHC362-16.5kWh WH-SHC362-19.8kWh/WH-SHC362-23.1kWh WH-SHC362-26.4kWh	WH-SHC462-13.2kWh/WH-SHC462-16.5kWh WH-SHC462-19.8kWh/WH-SHC462-23.1kWh WH-SHC462-26.4kWh	WH-SHC502-13.2kWh/WH-SHC502-16.5kWh WH-SHC502-19.8kWh/WH-SHC502-23.1kWh WH-SHC502-26.4kWh	WH-SHC602-13.2kWh/WH-SHC602-16.5kWh WH-SHC602-19.8kWh/WH-SHC602-23.1kWh WH-SHC602-26.4kWh	
<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	
Is <sub>c</sub> PV (d.c.A)				18/18	
NO. of MPP Trackers				2	
NO. of Strings per MPP Tracker				1	
<b>Battery</b>					
<b>Li-ion</b>					
Model	WH-SHC362/462/502/602-13.2kWh	WH-SHC362/462/502/602-16.5kWh	WH-SHC362/462/502/602-19.8kWh	WH-SHC362/462/502/602-23.1kWh	WH-SHC362/462/502/602-26.4kWh
Battery Capacity	LiFePO4 13.2kWh	LiFePO4 16.5kWh	LiFePO4 19.8kWh	LiFePO4 23.1kWh	LiFePO4 26.4kWh
Nominal Battery Voltage (d.c.V)	204.8	256.0	307.2	358.4	409.6
Battery Voltage Range (d.c.V)	192_230.4	240_288	288_345.6	336_403.2	384_460.8
Max. Charge/Discharge Current (d.c.A)				25	
Depth of Discharge (%)				92	
<b>AC Input/Output</b>					
Rated output Power (W)	3600	4600	5000	6000	6000
Rated Apparent Power to Grid (VA)	3600	4600	5000	6000	6000
Max. Apparent Power to Grid (VA)	3600	4600	5000	6000	6000
Max. Apparent Power from Grid (VA)	7200	9200	10000	12000	12000
Rated Voltage (a.c.V)				220/230/240	
Rated Frequency (Hz)				50/60	
Rated AC Current to Grid (a.c.A)	16	20	21.7	26.1	26.1
Rated AC Current from Grid (a.c.A)	32	40	43.4	52.2	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	6000
Rated Apparent Power (VA)	4320	5520	6000	7200	7200
Max. Apparent Power (VA)	4320	5520	6000	7200	7200
Rated Voltage (a.c.V)				220/230/240	
Norminal Frequency (Hz)				50/60 (±0.2%)	
Rated Output Current (a.c.A)	18.8	24	26.1	31.3	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)				600*430*1900	
Net weight (kg)	169	196.5	224	251.5	279
Operation Temp (°C)				-20_+60	
Relative Humidity (%)				0_95	
Altitude (m)				≤2000	
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	

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