

AGAVE-SH-PLUS

Home Battery Energy Storage System

eCACTUS



Support storing energy from diesel generator

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, easy to install
decoupling design, easy to maintain

Powerful

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

Protectable

PPB level to ensure TWH safety,
10 years reliability

Elegant

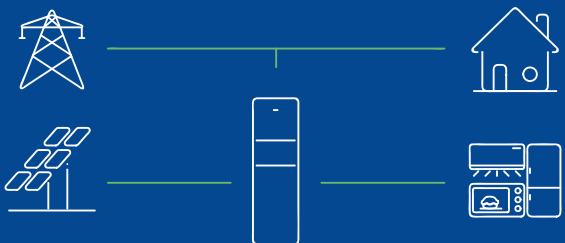
Easy work in cold and hot,
operating between
-20°C~60°C, IP65

Energetic

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

Effortless

Remote update and control via
ECOS, always fresh



- Back-up power switching time <10ms, enjoy your uninterrupted life.
- Supports 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	
PV Input					
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 MPP Trackers	2				
NO. of Strings per MPP Tracker	1				
Li-ion					
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				
AC Input/Output					
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%				
EPS Output					
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				
Normal Frequency (Hz)	50/60 (±0.2%)				
Rated Output Current (a.c.A)	18.8	24	26.1	31.3	31.3
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				
Efficiency					
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				
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					
Dimension (W/D/H)(mm)	600*425.5*1900				
Net weight (kg)	170	197	224	251	278
Operation Temp (°C)	-20...+50				
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				
Safety and Approvals					
Safety	IEC 62100, IEC 62109				
Country	EN 50549-1, CEI 0-21				

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