

AGAVE-SH Ultra



Residential Single-Phase All-In-One Energy Storage System
3.6-10kW / 4.99-19.9kWh

Max. **2** times
Photovoltaic
Oversizing

16 A
Max. PV Input
Current Per String

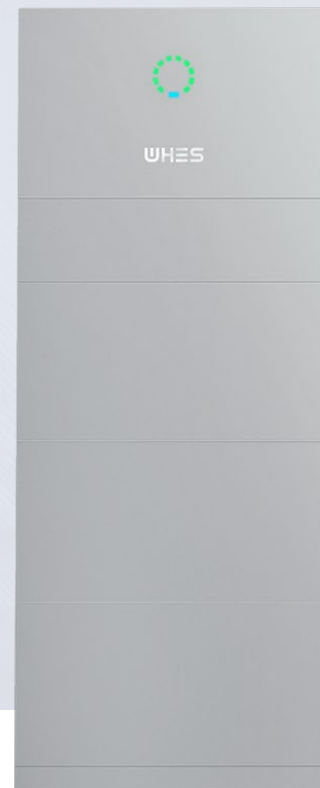
50 A
Fast Charge /
Discharge Current

< **10** ms
EPS Switching Time
Essential Load Backup

10-Year Warranty
10-Year Warranty on inverter
& battery components

Built-in FSS
Built-in Aerosol Fire
Suppression System

Powered by
ECOS
ECOS Smart Home
From WHES



Convenient

- Built-in meter function simplifies communication wiring.
- Integrated plug-in terminal, saving 75% installation time between modules.

Flexible

- 4.992kWh per battery module, up to 4 battery modules for a single unit.
- Supports up to 5 units in parallel.

Safe

- Four-layer protection design, including built-in fire suppression system.
- Supports AFCI for enhanced system safety.
- Long life cell, meeting the most stringent safety standards – UL9540A.

Friendly

- Supports optional intelligent heating module, providing a wider operating temperature range.
- < 25 dB, no noise pollution.

Contact Us

www.whes.com
info@whes.com



AGAVE-SH Ultra

Technical Specifications

Model	SIA-3.6kW	SIA-5kW	SIA-6kW	SIA-8kW	SIA-10kW
PV Input					
Max. PV Input Power	7360 Wp	10000 Wp	12000 Wp	16000 Wp	20000 Wp
Max. Input Voltage	600 V				
Rated Input Voltage	360 V				
Start-up Voltage	90 V				
MPPT Voltage Range	50..560 V				
Max. Input Current	32 A (16 A * 2)			64 A (32 A * 2)	
Max. Input Short Circuit Current	44 A (22 A * 2)			88 A (44A * 2)	
No. of MPPT	2			2	
No. of PV Strings per MPPT	1			2	
Battery Model					
Battery Type	LFP , 3.2 V / 52 Ah				
Battery System Configuration	WH-BXC4992-1S/2S/3S/4S-1				
Battery Capacity	4.992..19.968 kWh				
Voltage Range	80..500 V				
Max. Charging/Discharging Current	50 / 50 A				
AC Input/Output					
Rated Input/Output Power	7360 W / 3680 W	10000 W / 4999 W	12000 W / 6000 W	14490 W / 8000 W	14490 W / 9999 W
Max. Apparent Input/Output Power	7360 VA / 3680 VA	10000 VA / 4999 VA	12000 VA / 6000 VA	14490 VA / 8000 VA	14490 VA / 9999 VA
Rated Input / Output Current	32 A / 16 A	43.5 A / 21.8 A	52.2 A / 26.1 A	63 A / 34.8 A	63 A / 43.5 A
Max. Input / Output Current	32 A / 16 A	43.5 A / 21.8 A	52.2 A / 26.1 A	63 A / 34.8 A	63 A / 43.5 A
Rated Output Voltage	1/N/PE, 220 V / 230 V / 240 V				
Rated Frequency	50/60 Hz				
Power Factor	1 (-0.8..+0.8 adjustable)				
Total Harmonic Distortion (THDi)	< 3%				
EPS Output					
Rated Outpout Power ¹	3680 W	5000 W	6000 W	8000 W	10000 W
Peak Apparent Output Power	1.5 times of rated power, 10s	1.5 times of rated power, 10s	1.5 times of rated power, 10s	1.5 times of rated power, 10s	14490W, 10S
Rated Output Voltage	1/N/PE, 220 V / 230 V / 240 V				
Rated Output Current	16 A	21.8 A	26.1 A	34.8 A	43.5 A
Rated Frequency	50/60 Hz				
Back-up Switch Time	<10 ms				
Power Factor	1 (-0.8..+0.8 adjustable)				
Total Harmonic Distortion (THDi)	< 2%				
Efficiency					
PV Max. Efficiency	97.80%				
PV Europe Efficiency	97.30%				
Protection					
Over/Under Voltage Protection, DC Isolation Protection, DC Injection Monitoring, Residual Current Detection, Anti-islanding Protection, Over LoadProtection, Battery Input Reverse Polarity Protection, PV Reverse Polarity Protection, Surge Protection, Over Heat Protection, AFCI (optional)					
General Data					
Topology	Non-isolated				
Dimensions (W*D*H)	600*350* (885 / 1190 / 1495 / 1800) mm corresponding to the system height of 1-4 battery modules				
Weight	27.4 kg (Inverter module), 11 kg (High Voltage Box and Base), 57 kg (Battery module)				
Operating Temperature Range	Charge: 0°C..+50°C, Discharge: -20°C..+55°C ²				
Relative Humidity	0%..95%				
Altitude	≤3000 m				
Cooling	Natural Convection				
Noise	< 25 dB				
Ingress Protection	IP 65				
Display	LED / APP				
Communication	RS485 / CAN				
Installation	Floor-standing				
Standard ³	UN 38.3, IEC 61000, IEC 62619, IEC 63056, IEC 62109, IEC 62040, AS/NZS 4777.2, EN 50549-1/-10, G98/G99, CEI 0-21				

¹ Depends on the input power of the photovoltaic and batteries.

² This is the operating temperature without the heating module built-in.

³ For all standards refer to the certificates category on the WHES website.

* The product features a shiny silver color design with a mirror-like logo, which exhibits subtle color variations under different lighting conditions.

* All information reflects the current state of technology at the time of printing and is subject to change. Despite careful editing, no liability is assumed.