

# AGAVE-TH

Three Phase Home Battery Energy Storage System



## Product Introduction

Agave-TH, a high-efficiency three-phase high voltage hybrid all-in-one BESS. It supports 1-6 battery modules per unit, with a maximum of 4 units in parallel, covering a capacity range of 4.99-119.8kWh. Always ready for power upgrade for your home and business, better function for bigger clean energy usage.

### Fabulous

Max. 1.67 DC/AC Ratio, Max 18A DC input current per string. Up to 110% three-phase unbalanced output

### Scalable

Customised your need, support paralleling. Better for commercial and industrial scenarios

### Flexible

Modular design, stacking is wiring, easy to install and maintain

### Safe

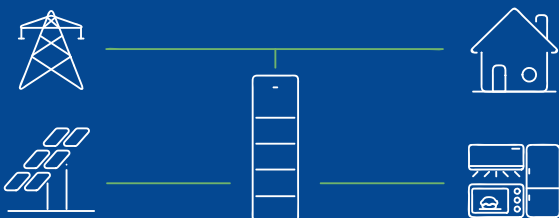
4-layer protection design. Long life cell, UL9540A highest standard

### Friendly

IP65, indoor or outdoor application. <25dB, no noise pollution

### Smart

VPP, EV and Diesel Generator ready. remote updates & self-diagnosis



- Agave-TH will store photovoltaic or grid energy. If there is not enough solar energy to support consumption, the stored battery power will be discharged by Agave-SH to meet the power demand.
- Autonomous strategy, automatically optimising energy use based on the user's needs and preferences.

# Agave-TH Series

## Technical parameters



Model	WH-TPHA5.0H Series	WH-TPHA6.0H Series	WH-TPHA8.0H Series	WH-TPHA10.0H Series	WH-TPHA12.0H Series	WH-TPHA13.0H Series
<b>PV Input</b>						
Absolute max Voltage (V)	1000					
MPPT Voltage Range (V)	180..980					
Max. DC Input Power (W)	7500	9000	12000	15000	20000	20000
Full Power MPPT Voltage Range (V)	210-850	255-850	335-850	420-850	560-850	560-850
Start-up Voltage (V)	145					
Rated Operating Voltage (V)	620					
Max. Input Current (A)	18/18					
Max. Inverter Backfeed Current to Array (A)	0					
Isc PV (A)	22/22					
NO. of MPP Trackers	2					
NO. of Strings per MPP Tracker	1					
<b>Battery</b>						
Battery Type	LFP					
Battery Voltage Range (V)	160..700					
Battery Module	4.992kWh, 45kg					
Number of Battery Module	2..6					
Battery Capacity (kWh)	9.98..29.9					
Max. Charge/Discharge Current (A)	25/25					
<b>AC Input/Output</b>						
Rated Output Power (W)	5000	6000	8000	10000	12000	13000
Rated Apparent Power to Grid (VA)	5000	6000	8000	10000	12000	13000
Max. Apparent Power to Grid (VA)	5500	6600	8800	11000	13200	14300
Rated Apparent Power from Grid (VA)	10000	12000	16000	17900	17900	17900
Max. Apparent Power from Grid (VA)	11000	13200	17600	17900	17900	17900
Rated Voltage (V)	3/N/PE: 220/380, 230/400, 240/415					
Rated Frequency (Hz)	50/60					
Rated AC Current to Grid(A)	7.3	8.7	11.6	14.5	17.4	18.9
Max. AC Current to Grid(A)	8.1	9.6	12.8	16	19.2	20.8
Rated AC Current from Grid(A)	14.6	17.4	23.2	26	26	26
Max. AC Current from Grid(A)	16.2	19.2	25.6	26	26	26
Inrush Current(A)	16 a.c.A (peak), 11.3 us (duration)					
Max. Output Fault Current(A)	52 (peak), 37 (rms)					
AC Output Maximum Output Overcurrent Protection(A)	37					
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>						
Rated. Output Power (W)	5000	6000	8000	10000	12000	13000
Single-phase Peak Output Power (W)	2000	2400	3200	4000	4800	5000
Peak Output Apparent Power (VA) @60 sec	10000	12000	16000	16000	16000	16000
Rated Voltage (V)	3/N/PE: 220/380, 230/400, 240/415					
Nominal Frequency (Hz)	50/60 (±0.2%)					
Rated Output Current (A)	7.3	8.7	11.6	14.5	17.4	18.9
Inrush Current(A)	16 a.c.A (peak), 11.3 us (duration)					
Max. Output Fault Current(A)	52 (peak), 37 (rms)					
EPS Output Maximum Output Overcurrent Protection(A)	37					
Switch Time (ms)	< 10					
THDv @ Linear Load (%)	< 2					
Power Factor	-0.8..+0.8					
<b>Efficiency</b>						
PV Max. Efficiency(%)	98					
PV Europe Efficiency(%)	97					
PV Max. MPPT Efficiency(%)	99.9					
Battery Charge by PV Max. Efficiency(%)	98.5					
Battery Discharge Efficiency(%)	97.7					
<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*300*1900 (four battery modules, with foundation)					
Hybrid Inverter Net weight (kg)	42					
Operation Temperature (°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)	< 10					

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