

AGAVE-TH

Three Phase Home Battery Energy Storage System

ECACTUS



Product Introduction

Agave-TH, a high-performance three phase hybrid all-in-one BESS, with a maximum 20kW PV input and 13kW AC output, supports power needs up to 13kW. It helps your classic house to become a fully power independent one, even in blackout situation Agave-TH will construct a power safe environment for your family.

Fabulous

Max. 18A string current, 20kW PV input, better adapting to the high-power PV modules

Flexible

Modular design with pre-wiring, easy installation

Friendly

IP65, multi-scenario installation. <25dB, no noise pollution

Superb

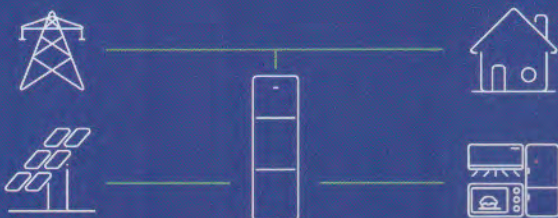
Support 110% three phase unbalanced output

Smart

VPP and IOT ready. Remote update & service by ECOS

Secured

Max. 13kW three phase backup output, switching time <10ms



- Agave-TH will store photovoltaic or grid energy. If there is not enough solar energy to support consumption, the battery will be discharged by Agave-TH to meet the power demand.
- Autonomous strategy.

Agave-TH Series

Technical parameters



Model	WH-TPHA5.0H -10.24kWh	WH-TPHA6.0H -10.24kWh	WH-TPHA8.0H -10.24kWh	WH-TPHA10.0H -10.24kWh	WH-TPHA12.0H -10.24kWh	WH-TPHA13.0H -10.24kWh
PV Input						
Absolute max Voltage (d.c.V)				1000		
MPPT Voltage Range (d.c.V)				180_980		
Max. DC Input Power (W)	7500	9000	12000	15000	20000	20000
Full Power MPPT Voltage Range (d.c.V)	210-850	255-850	335-850	420-850	560-850	560-850
Start-up Voltage (d.c.V)				145		
Rated Operating Voltage (d.c.V)				620		
Max. Input Current (d.c.A)				18/18		
Max. inverter backfeed current to array (d.c.A)				0		
Isc PV (d.c.A)				22/22		
NO. of MPP Trackers				2		
NO. of Strings per MPP Tracker				1		
Battery						
Battery Type				Li-Ion		
Battery Capacity (kWh)				10.24		
Nominal Battery Voltage (d.c.V)				409.6		
Battery Voltage Range (d.c.V)				320_464.4		
Max. Charge/Discharge Current (d.c.A)				25/25		
AC Input/Output						
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	17600	17900	17900
Max. Apparent Power from Grid (VA)	11000	13200	17600	17900	17900	17900
Rated Voltage (a.c.V)				3/N/PE: 220/380, 230/400, 240/415		
Rated Frequency (Hz)				50/60		
Rated AC Current to Grid(a.c.A)	7.3	8.7	11.6	14.5	17.4	18.9
Max. AC Current to Grid(a.c.A)	8.1	9.6	12.8	16	19.2	20.8
Rated AC Current from Grid(a.c.A)	14.6	17.4	23.2	26	26	26
Max. AC Current from Grid(a.c.A)	16.2	19.2	25.6	26	26	26
Inrush current(a.c.A)				16 a.c.A (peak), 11.3 us (duration)		
Max. output fault current(a.c.A)				52 (peak), 37 (rms)		
AC output Maximum output overcurrent protection(a.c.A)				37		
AC input power factor				-0.8..+0.8		
AC output power factor				1 (-0.8..+0.8 adjustable)		
THDi				< 3%		
EPS Output(With Battery)						
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	18000	18000
Rated Voltage (a.c.V)				3/N/PE: 220/380, 230/400, 240/415		
Nominal Frequency (Hz)				50/60 (±0.2%)		
Rated Output Current (a.c.A)	7.3	8.7	11.6	14.5	17.4	18.9
Max Output Current (a.c.A)	8.1	9.6	12.8	16.0	19.2	20.8
Inrush current(a.c.A)				16 a.c.A (peak), 11.3 us (duration)		
Max. output fault current(a.c.A)				52 (peak), 37 (rms)		
EPS output Maximum output overcurrent protection(a.c.A)				37		
Switch time (ms)				< 10		
THDv @ Linear Load (%)				< 2		
AC output power factor				1 (-0.8..+0.8 adjustable)		
Efficiency						
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		
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)				550*233*1750		
Net weight (kg)				123		
Operation Temp (°C)				-25..+60		
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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