

PowerPod (AGAVE-TH)

WHES

Residential Three-Phase All-In-One Energy Storage System
5-13kW / 9.98-29.9kWh

Powerful and Reliable Energy for Life. III

Max. **2** times
Photovoltaic
Over-configuration

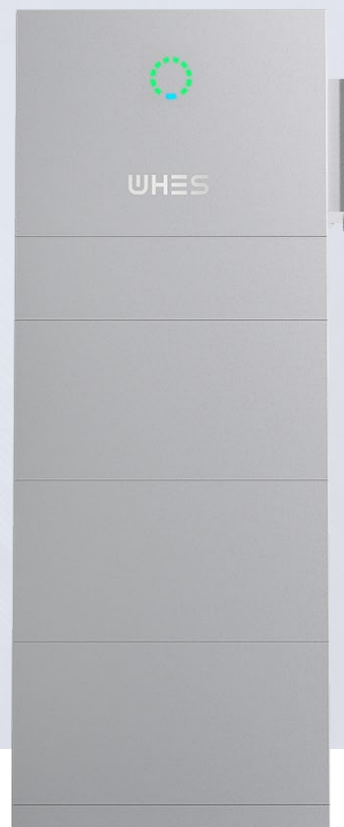
180-980_v
Wider MPPT Range

< **10** ms
EPS Switching Time

110 %
Unbalanced Output

Powered by
ECOS
ECOS Smart Home
From WHES

 **Battery Heating
Technology**



Superb

- Max. 16/26A DC input current per string, compatible with 182/210 PV modules.
- Max. 5 units in parallel, covering a capacity range up to 149.76kWh.

Friendly

- Integrated plug-in terminal replaces manual wiring, saving 75% installation time between modules.
- IP65, indoor or outdoor application.
- <25dB, no noise pollution.

Safe

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

Smart

- Compatible with VPP, EV, and diesel generators.
- Remote updates & self-diagnosis.

Contact Us

www.whes.com
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Technical Specifications

Model	WH-TIA502		WH-TIA602	WH-TIA802	WH-TIA103	WH-TIA123	WH-TIA133
PV Input							
Absolute Max. Voltage	1000 V						
MPPT Voltage Range	180...980 V						
Max. DC Input Power	10000 W	12000 W	16000 W	20000 W	20000 W	20000 W	
Start-up Voltage	145 V						
Rated Operating Voltage	620 V						
Max. Input Current	16/26 A						
Isc PV	20/36 A						
No. of MPP Trackers	2						
No. of Strings per MPP Tracker	1/2						
Battery Model							
Battery Type	LFP						
Battery Voltage Range	160...700 V						
Battery Module	4.992kWh, 96V						
Number of Battery Module ¹	2..6						
Battery Capacity	9.98...29.9 kWh						
Max. Charge/Discharge Current	30/30 A						
AC Input/Output							
Nominal Output Power	5000 W	6000 W	8000 W	10000 W	12000 W	13000 W	
Max. Apparent Power to Grid	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA	13000 VA	
Max. Apparent Power from Grid	10000 VA	12000 VA	16000 VA	17900 VA	17900 VA	17900 VA	
Nonmial Voltage	3/N/PE; 220 V / 380 V 3/N/PE; 230 V / 400 V 3/N/PE; 240 V / 415 V						
Nomial Frequency	50/60 Hz (±0.2%)						
Max. AC Current to Grid	8.1 A	9.6 A	12.8 A	16 A	19.2 A	20.8 A	
Max. AC Current from Grid	16.2 A	19.2 A	25.6 A	26 A	26 A	26 A	
Max. Output Fault Current	52 A (peak), 37 A (rms)						
AC Output Max. Output Overcurrent Protection	37 A						
AC Input Power Factor	-0.8...+0.8						
AC Output Power Factor	1 (-0.8...+0.8 adjustable)						
THDi	< 3%						
EPS Output (With Battery)							
Nominal Output Power ²	5000 W	6000 W	8000 W	10000 W	12000 W	13000 W	
Peak Output Apparent Power @60 sec	10000 VA	12000 VA	16000 VA	16000 VA	16000 VA	16000 VA	
Nominal Voltage	3/N/PE; 220 V/380 V 3/N/PE; 230 V / 400 V 3/N/PE; 240 V / 415V						
Nominal Frequency	50/60 Hz (±0.2%)						
Max. Output Current	8.1 A	9.6 A	12.8 A	16 A	19.2 A	20.8 A	
Max. Output Fault Current	52 A (peak), 37 A (rms)						
EPS Output Max. Output Overcurrent Protection	37 A						
Switch Time	< 10 ms						
THDv @ Linear Load	< 2%						
Power Factor	-0.8...+0.8						
Efficiency							
PV Max. Efficiency	98.50%						
PV Europe Efficiency	97%						
PV Max. MPPT Efficiency	99.90%						
Max. Battery Charge Efficiency (PV to BAT)	98.50%						
Max. Battery Discharge Efficiency (BAT to AC)	98.50%						
Protection							
Over/Under Voltage Protection, DC Isolation Protection, DC Injection Monitoring, Residual Current Detection, Anti-islanding Protection, Over Load Protection, Battery Input Reverse Polarity Protection, PV Reverse Polarity Protection, Surge Protection, Over Heat Protection							
General Data							
Dimension (W*D*H)	600*350*1880 mm (four battery modules, with foundation)						
Hybrid Inverter Net Weight	33 kg						
Operating Temperature Range	-20°C...+55°C ³						
Relative Humidity	0...95%						
Altitude	≤ 3000 m						
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	< 25 dB						
Standby Power Consumption	< 10 W						
Standard ⁴	EN 50549-1:2019, VDE-AR-N 4105:2018, C10/11:2021, EIFS 2018:2, RfG:2016, CEI 0-21:2022/V2:2024						

¹ There are installation space restrictions in some scenarios. The optimal number of batteries to be installed is less than or equal to 4.

² Depends on the voltage and the discharge current of the batteries connected.

³ This is the operating temperature when the intelligent heating module is built-in, if not, the operating temperature is Charge: 0°C...50°C, Discharge: -10°C...+55°C.

⁴ 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.