

PowerPod

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

VOL+A
ECO SYSTEMS

Powerful and Reliable Energy for Life.

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

180-980 V
Wider MPPT Range

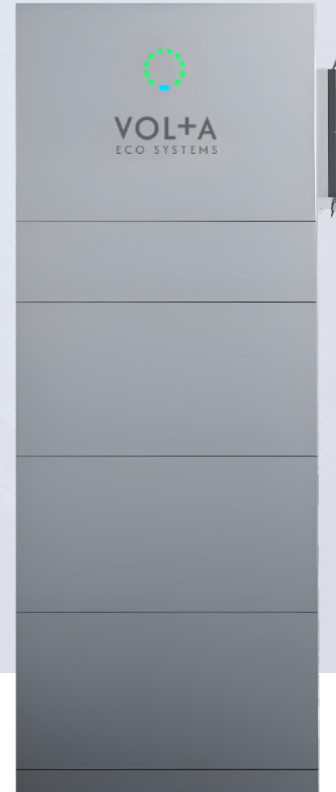
< **10** ms
EPS Switching Time

110 %
Unbalanced Output

Powered by

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.voltaeco.co.uk
help@voltaeco.co.uk

PowerPod

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							
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											
AC Input Power Factor	-0.8...+0.8											
AC Output Power Factor	(-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, EHS 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.