EcoGreenEnergy

All-in-One Liquid Cooling Cabinet for C&I



- 2 adaptive different power of PCS
- 418kWh Battery Storage
- Powered by HERMES EMS
- Cell Level BMS
- Liquid Cooling & Fire Safety System

EGE GAIA Core AIO
418kWh AC

HERMES Energy Management System

- Multi-site strategy deployment
- Multi level alarms from system to cell level
- Integrated work order management
- Third party system integration
- Early stage configuration
- Customizable site topology
- Five-level account management
- End-user kiosk mode

Fast Deployment

· Easy transport and installation in 24h
· Plug & Play instant AC connection
· Up to 24 units in parallel

Safe & Reliable

· 8000+ cycles IP65 Batteries
· Outdoor IP55 Cabinet
· Multi-level fire protection

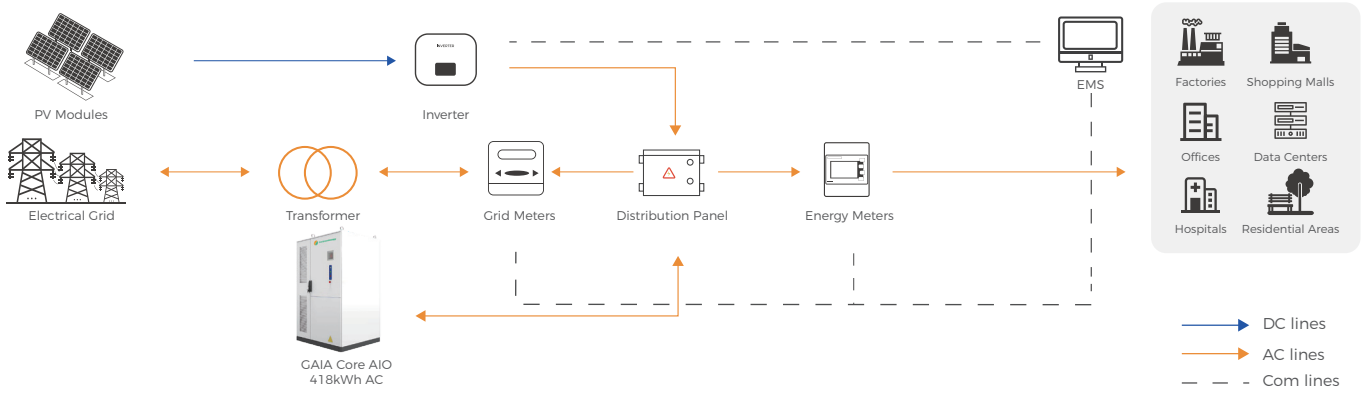
Remote O&M

· Online monitoring interface
· In-real-time internal diagnosis
· Daily electrical, financial and environmental report

Strategies

· Energy Arbitrage
· Peak Shaving
· Load Shifting
· Self-Consumption

System diagram



EGE GAIA Core AIO 418kWh AC

	EGE GAIA Core AIO 125kW / 418kWh	EGE GAIA Core AIO 210kW / 418kWh
Battery Data		
Cell Chemistry	LFP 314Ah	
Rated Energy	418 kWh	
Configuration	1P52S8S	
System Voltage (Nominal)	1,331.2 V DC	
Voltage Range	1,164.8 – 1,497.6 V DC	
Cycle Life / System Service Life	> 8000 cycles / 15 years	
Electrical AC Data		
Rated AC Power (PCS)	125 kW	210 kW
Rated Output Current	73A	152A
Conversion Efficiency	≥99%	
Max. Parallel Units	24 (6 per PoC) - On-Grid only	
Rated Grid Voltage	400 Vac	800 Vac
Grid Frequency	50/60Hz	
THDi	< 3%	
Power Factor	0.99 / -1 ~ +1	
Grid Type	3W+N+PE/3W+PE	3W+PE
Performance & Environment		
Charge/Discharge Rate	0.3P	0.5P
Operating Temperature	-25 ˚C ~ +55 ˚C (derating above 45 ˚C)	
Storage Temperature	-40˚C ~ +70˚C	
Operating Humidity	5 - 95% (non-condensing)	
Altitude	≤ 3,000 m (derating above 2,000 m)	
Noise	≤ 80 dB	
Safety & Compliance		
IP Rating	Cabinet : IP55 / Batteries : IP65	
Cooling Method	Battery : Liquid cooling / PCS : Forced air cooling	
Fire Suppression	In-PACK aerosol fire warning & suppression	
Certifications	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4 Grid codes : EN50549-1/-10, EN50549-2/-10, PN-EN-50549-1/-2	
Protocols	Modbus TCP/IP	
Communication	EMS : RS485 & Modbus-RTU BMS : CAN	
EMS/BMS	Integrated	
Logistics		
Weight	3,800 kg	
Dimensions (WxDxH)	1,500 × 1,350 × 2,400 mm	
40 HQ Container	6 units max	

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