

EOS-418

All-in-One C&I Energy Storage System

HESS-215-418 (215kW/418kWh)(EU)



Supports AC800V direct coupled photovoltaics without the need for transformers

This product is specifically optimized for photovoltaic-storage integrated applications, enabling direct parallel coupling with AC800V-compatible photovoltaic inverters to achieve transformer-free integration, significantly reducing system costs and losses.



Comprehensive Safety

- **Proactive Alert** Cell-level monitoring, early warning
- **Multi-Level Protection** Pack, cluster, cabin isolation
- **Fire & Explosion Prevention** Triple fire protection, vent design



High Efficiency

- **High Conversion** System efficiency $\geq 87\%$
- **AI-Powered Scheduling** Optimized energy dispatch
- **Maximized ROI** Peak shaving & other revenue



Simple O&M

- **Cloud Diagnosis** Fault identification in seconds
- **Remote Management** Cloud-based monitoring & control
- **24/7 Guardian** Expert team always on watch



Easy Deployment

- **Plug & Play** Pre-installed, powered on arrival
- **Time Saving** Drastically reduces installation time
- **Scalable Design** Modular expansion as needed



Peak Shaving



Arbitrage



Backup Power



Grid Services

Model		HESS-215-418
Basic Parameters		
Rated Power	215 kW	
Battery Capacity	418 kWh	
dimensions (W*D* H)	1400 (W)*1420(D)*2360(H)mm	
Weight	3.8 t	
DC Side Parameters		
Cell Type	LFP 3.2 V / 314 Ah	
System Pack Configuration	1P52S * 8	
Battery Voltage Range	1040-1497 VDC	
Number of DC parallel units	4 units (supports 0.125C-0.5C system)	
AC Side Parameters		
Rated output voltage	690/800 (-15% ~ 15%) Vac	
Rated mains frequency	50/60 Hz	
Charge-discharge conversion time	<100 ms	
System Parameters		
Cycle count	8000 ~ 10000 cycle	
Full cabinet energy conversion efficiency	Maximum 90%	
Protection rating	IP66 (battery Pack)/IP54 (equipment compartment)/PCS(IP66)	
Operating temperature	-30°C to 55°C (optional: -40°C to +60°C)	
Corrosion resistance rating	C4(C5Customisable)	
Fire suppression system	PACK-level precision fire suppression + compartment-level fire suppression (aerosol) + water fire suppression+PACK-level directional exhaust	
Overload capacity	110% load, 10 minutes; 120% load, 1 minute	
Permissible ambient humidity	0~100% RH	
Cooling method	Intelligent liquid cooling (Supports real-time monitoring and automatic liquid replenishment)	