

# EOS-418

## All-in-One C&I Energy Storage System

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



### 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
Product dimensions (W*D* H)		1420 (W)*1350 (D)*2350(H)mm
Weight		3.8 t
DC Side Parameters		
Cell Type		Lithium iron phosphate 3.2 V / 314 Ah
System Pack Configuration		1P52S * 8
Battery Voltage Range		1040 VDC ~ 1518.4 VDC
AC Side Parameters		
Rated output voltage		690/800 (-15% ~ 15%) Vac
Rated mains frequency		50 ~ 60 Hz
Charge-discharge conversion time		<50 ms
System Parameters		
Cycle count		8000 ~ 10000 cycle
Full cabinet energy conversion efficiency		Annual average exceeds 88%, with maximum exceeding 89%
Protection rating		IP66 (battery Pack)/IP54 (equipment compartment)/PCS(IP66)
Operating temperature		-40°C ~ +60°C
Corrosion resistance rating		C4(C5Customisable)
Fire suppression system		PACK-level precision fire suppression + compartment-level fire suppression (aerosol) + water fire suppression
Overload capacity		1.1 times (grid-connected)
Permissible ambient humidity		0~100% RH
Cooling method		Intelligent liquid cooling