

# HoyUltra All-in-One Battery System



Applications: Commercial & Industrial;  
Microgrid

### Intelligent and Safe

A standalone system with an integrated multi-level BMS ensures exceptional safety, while multi-DC fuse protection guarantees fast-breaking and anti-arc safety

### Economical and Efficient

Advanced thermal management ensures cell consistency and extends cycle life, with a one-string-one-management approach for enhanced usable capacity

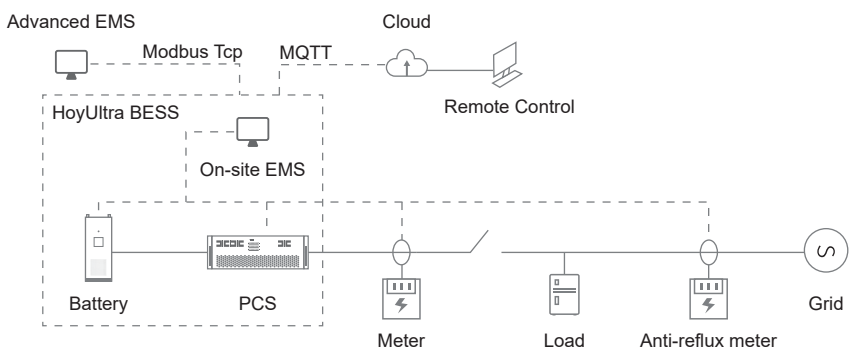
### Easily Scalable

Easily transportable, and pre-assembled battery system, eliminating the time to install on site, Supports multi-cabinet parallel connection and offers PQ, VF, black start, and more

### Safe and Reliable

Enhanced safety features include a fire suppression system, gas detection, and an emergency shutdown function for added protection

## System Diagram



DC side		
Battery Type	LFP (Lithium Iron Phosphate)	
Configuration	1P240S	
Rated Capacity (Ah)	280	
Battery Capacity (BOL) at DC side (kWh)	215	
Rated Voltage (V)	768	
Rated Power (kW)	100	
Rated Charge (Discharge) Rate	0.5C	
Operating Voltage Range (V)	672 ~ 864	
Standard Charge (Discharge) Current (A)	140	
Cooling Mode	Liquid cooling	
Coolant	Ethylene Glycol: Aqueous Solution (50%v: 50%v)	
Cycles	8000	
Fire Extinguisher	Perfluorohexanone (optional)	
Fire Safety Equipment	Smoke, heat & flammable gas detector	
AC side		
Rated AC Power (KW)	100	
AC Overload Capacity(KVA)	110	
AC Connection	Three-phase, four-wire system	
Rated Grid Voltage (Vac)	380/400	
Rated Grid Frequency (Hz)	50/60	
THD of Current	<3% (at nominal power)	
Power Factor	>0.99 (at nominal power)	
Voltage Regulation Accuracy	≤±2%	
Current Regulation Accuracy	≤±5%	
Max. Conversion Efficiency	98%	
Cooling	Air cooling	
Battery System		
Operating Temperature Range (°C)	-20°C to 50°C (> 45°C derating)	
Noise (dB)	< 75	
Dimensions(W*D*H) (mm)	935 × 1250 × 2380	
Weight (T)	2.7 ± 0.1	
Anti-corrosion	C4	
IP Rating	Battery Compartment:IP65 Electrical Compartment:IP54	
Operating Humidity	0-95% (non-condensing)	
Operating Altitude(m)	≤3000 (>3000 derating)	
Efficiency	Up to 86%	
Communication Interface	CAN, Ethernet	
Communication Protocol	ModbusTCP, MQTT, IEC61850	
Operating Modes	Peak Shaving and Valley Filling	Yes
	Demand Control	Yes
	Economic Operation Mode	Yes
	Reactive Power Regulation	Yes
	Grid Dispatch Interface	Yes
	Remote Dispatch Interface	Yes
	Local Data Storage	Yes
Certification	BMS	GB/T34131-2017; UL60730
	Battery	GB/T36276-2018; IEC62619; UL1973; UL9540A; CEI 0-21
	PCS	GB/T 34120-2017 GB/T 34133
		CE; EN50549-1:2019+AC.2019-04; CEI 0-21; CEI 0-16; NRS097-21-1::2017; EN50549+Deviations of Netherlands; C10/11:2019