

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

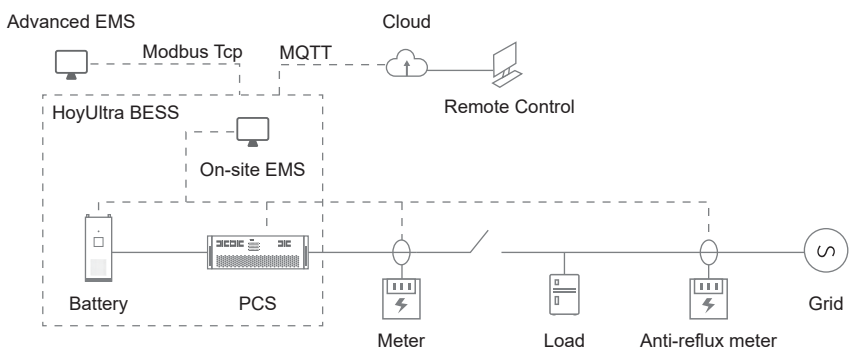
Easily Scalable

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	
Cell Configurations	1P240S	
Rated Capacity (Ah)	280	
Battery Capacity (BOL) at DC side (KWh)	215	
Nominal DC Voltage (V)	768	
Nominal AC Power (KW)	100KW @45°C	
Rated Charge/Discharge Rate	0.5C	
DC Voltage Range (V)	672 ~ 864	
Standard Charge/Discharge Current (A)	140/140	
Cooling Mode	Liquid cooling	
Coolant	Ethylene glycol: aqueous solution (50%v :50%v)	
Fire Extinguisher	NOVEC1230/FM200 (optional)	
Fire Safety Equipment	Smoke,heat & flammable gas detectors	
AC side		
Nominal AC Power (KVA)	100	
AC Overload Capacity (KVA)	110	
AC Connection	Three-Phase Four-Wire System	
Nominal Grid Voltage (Vac)	380/400	
Nominal Grid Frequency (Hz)	50/60	
Max.THd of Current	<3% (at nominal power)	
Power Factor	>0.99 (at nominal power)	
Percentage of Voltage Regulation	±2%	
Percentage of Current Regulation	±5%	
Max. Conversion Efficiency	98.50%	
Cooling Mode	Air cooling	
Battery System		
Operating Temperatures Range (°C)	-30 ~ 55 (>45°C derating)	
Noise (dB)	< 75	
Dimensions(W*D*H)(mm)	935*1250*2380	
Weight(T)	2.7±0.1	
Anti-corrosion	C4 / C5 (optional)	
IP Rating	Battery compartment:IP65	
	Electrical compartment:IP55	
Relative Humidity	0~95% (no condensing)	
Standard Altitude (m)	≤3000 (>3000 derating)	
Communication Interface	CAN, Ethernet, RS485	
Communication Protocol	ModbusTCP/RTU, MQTT	
Function	Peak load shifting	Yes
	Demand control	Yes
	Economic operation mode	Yes
	Reactive power regulation	Yes
	Power grid dispatch connection	Yes
	Remote dispatch connection	Yes
	Local data storage	Yes
	Anti-reflux	Optional
Compliance	BMS	GB/T34131-2017; UL60730
	Battery	GB/T36276-2018; IEC62619; UL1973; UL9540A;
	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