HoyUltra All-in-One Battery System

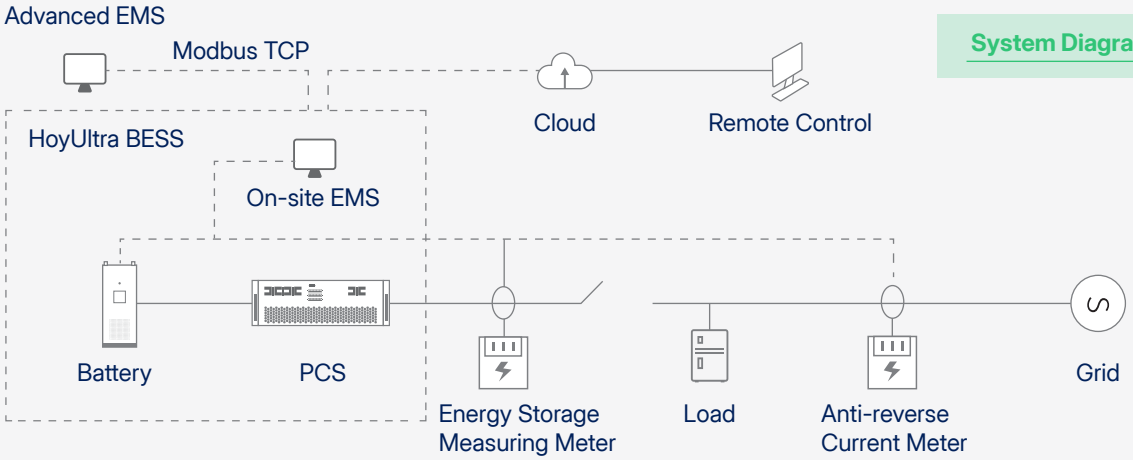
A standalone system with an integrated multi-level BMS ensures exceptional safety, while multi-DC fuse protection guarantees fast-breaking and anti-arc safety.

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

Easily transportable and pre-assembled, saves the installation time on site. Supports multi-cabinet parallel connection and offers PQ, VF, black start, and more.

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

System Diagram



Technical Specifications

DC Side	
Battery Type	LFP (Lithium Iron Phosphate)
Configuration	1P240S
Rated Capacity (Ah)	280
Battery Capacity (BOL) (kWh)	215
Rated Voltage (V)	768
Rated Power (kW)	100
Rated Charge (Discharge) Rate	0.5C
Operating Voltage Range (V)	672 to 864
Standard Charge (Discharge) Current (A)	140
Cooling	Liquid Cooling
Coolant	Ethylene Glycol: Aqueous Solution (50%v: 50%v)
Cycles	8000
Fire Suppression System	NOVEC1230 (Perfluorohexanone)
Fire Suppression Equipment	Somke Detector, Temperature Detector, 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 (V)	380/400
Rated Gird Frequency (Hz)	50/60
Total Harmonic Distortion 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)	-30 to 55 (> 45 Derating)
Noise (dB)	< 75
Dimensions (W × D × H) (mm)	935 × 1250 × 2380
Weight (T)	2.3 ± 0.1
Anti-corrosion	C4
IP Rating	Battery Compartment: IP65 Electrical Compartment: IP54
Operating Humidity	0 to 95% (Non-condensing)
Operating Altitude (m)	≤ 3000 (> 2000 Derating)
Efficiency	Up to 86%
Communication Interface	CAN, Ethernet
Communication Protocol	Modbus TCP
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
Anti-reverse Current	Yes
Certification	
BMS	IEC/EN 60730-1: 2020 Annex H, UL60730-1: 2016 Annex H, GB/T 34131-2017
Battery/System	GB/T 36276-2018, IEC 62619-2017, ANSI/CAN/UL 1973: 2022, ANSI/CAN/UL 9540A: 2019, UN 38.3, EN 62477-1: 2012+A11: 2014+A1: 2017+A12: 2021, EN IEC 61000-6-1: 2019, EN IEC 61000-6-2: 2019, EN IEC 61000-6-3: 2021, EN IEC 61000-6-4: 2019
PCS	CE, GB/T 34120, GB/T 34133, EN 50549-1: 2019+AC: 2019-04, EN 50549-2: 2019+AC: 2019-03, CEI 0-21, CEI 0-16, NRS 097-2-1: 2017, EN 50549+Deviations of Netherlands, EN 50549+C10/11: 2019, EN 50549+Deviations of Greece, EN 50549+Deviations of Sweden, NC RFG, PTPiREE, G99, VDE-AR-N 4105: 2018, DIN VDE V 0124-100: 2020-06, UNE 217001: 2020, UNE 217002: 2020, NTS V2.1