

HoyUltra All-in-One Battery System



✔ 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

Technical Specifications

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)
Fire Extinguisher	NOVEC1230
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%
Cooling	Air cooling

Battery System

Operating Temperature Range (°C)	-30°C to 55°C (> 45°C 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	0-95% (non-condensing)
Operating Altitude (m)	≤3000 (>2000 derating)
Communication Interface	CAN, Ethernet
Communication Protocol	ModbusTCP, MQTT

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-backflow	Yes

Certification

BMS	GB/T34131-2017; UL60730
Battery	GB/T36276-2018; IEC62619; UL1973; UL9540A
PCS	CE EN50549-1:2019+AC.2019-04; CEI 0-21 CEI 0-16; IEC62477