



Fully Liquid Cooling C&I Battery System

HoyUltra 2

HoyUltra 2 series (Model : HESS-261-2h) is a next-generation fully liquid cooling C&I battery system by Hoymiles, Its maximum round-trip efficiency can reach 90.3%. Equipped with a 3-level, 6-type safety protection mechanism, it ensures 24/7 safe operation. The edge EMS and local APP system enable intelligent operation and maintenance. The battery and PCS feature a fully liquid cooling design, allowing for full - capacity operation without derating even at 50°C. The core components boasting an IP55 protection rating and noise levels as low as 60dB.

✓ Three-level and six-type safety protection

- Active / Passive / Ultimate protection
- 3S Active intervention / PACK / Cabinet / Interlocked exhaust ventilation / Pressure relief / Cloud early warning protection

✓ Efficient Energy Management

- Local optimization of edge EMS, global data analysis in the cloud
- Interconnected with the APP system to achieve division of labor, collaboration, and efficient management

✓ Multi-scene applications

- Coordinated control of Photovoltaic, Energy Storage and Charging
- Fully liquid cooling design for battery and PCS, enabling operation without derating at 50°C
- IP55 protection level for core components, waterproof and dustproof
- Noise levels as low as 60dB, adaptable to supermarkets, hotels, and communities
- Operating with 100% three-phase imbalance under load at Off-Grid

Technical Specifications

HoyUltra 2 Series	
Model	HESS-261-2h
DC Side	
Cell Type	LFP3.2V / 314Ah
Pack Configuration	1P52S / 52.25kWh
System Configuration	1P260S
Battery Voltage Range	728 - 936VDC
Nominal Battery Energy	261kWh
Temperature Detection	Battery cell+Module+Positive and Negative terminals
AC Side (On-Grid)	
Rated Output Power	125kW (@50°C)
Maximum Output Power	137.5kW
Rated Grid Voltage Range	340 - 440VAC
Rated Grid Frequency	50/60Hz , ±5Hz
THDi	< 3% (@rated power)
Grid Type	3P3W / 3P4W
AC Side (Off-Grid)	
Rated Output Power	125kW (@50°C)
Rated Output Voltage Range	340 - 440VAC
Rated Grid Frequency	50/60Hz
THDu	< 3% (Linear load)
DC Injection	< 1% U _n (Balanced linear load)
Efficiency	
Rated Round-trip Efficiency	≥ 88.4%
Maximum Round-trip Efficiency	90.3%
Overload	
Overload Capacity	Operate for a long time at 1.1 times (137.5kW@45°C), Operate for no less than 1 minutes at 1.2 times the rated load
General Data	
Dimensions (W×H×D)	1030 × 2450 × 1400mm
Weight	< 2700kg
Operating Temperature	-30 to +55°C (> 50°C, derating operation)
Operating Humidity	0 - 100%RH (non-condensing)
Altitude	≤ 2000m (Optional ≤ 4000m)
IP Rating	IP55
Cooling Method	Fully liquid cooling (PCS + Battery)
Noise	70dB (Optional 60dB)
Rated Charge/Discharge Rate	≤ 0.5P
Fire Suppression System	Perfluorohexanone + PACK-level fire protection + Water fire protection + Interlocked exhaust ventilation +Pressure relief (Optional) + Aerosol (Optional)
AC Inlet Method	Front bottom inlet
Display and Communication	
Communication Interface	RS485、Ethernet、DIO
Communication Protocol	MODBUS-RTU、MODBUS-TCP、DL/T645
Cloud Service	Default S-Miles APP (Support third-party cloud platforms)

* Subject to change without notice.