Open Energy for All

Fully Liquid Cooling C&I Battery System

HoyUltra 2 series (Model : HESS-261-2h) is a next-generation fully liquid cooling C&I battery system by Hoymiles, delivering a maximum efficiency of up to 90.3%.
Equipped with a 3-layer, 5-tiered integrated safety design, the system ensures 24/7 safe operation. The edge EMS and local APP system supports intelligent O&M as well as cloud-based global data analytics. The battery and PCS feature a fully liquid cooling design, allowing for full-capacity operation without derating even at 55°C. The core components boasting an IP55 protection rating and noise levels as low as 60dB.

HoyUltra 2



Features

01 Supports 3S active intervention + cabinet + interlocked exhaust + explosion venting + cloud early warning protection.

02 The edge EMS enables real-time local optimization and cloud-based global data analysis.

03 Operating with 100% three-phase imbalance load at Off-Grid parallel mode.

04 Intelligent liquid-cooling design maintaining full power at 55°C ambient temperature.

05 Core components with IP55 protection rating, dustproof and waterproof.

06 Noise as low as 60dB, suitable for supermarkets, hotels, communities, and other scenarios.

Region: Global Version: REV2.0

Technical Specifications

HoyUltra 2 Series			
Model	**HESS-261-2h(99)**	**HESS-261-2h(124)**	**HESS-261-2h**
DC Side			
Battery Designation	Cell A: IFpP/73/176/208[(52S1P)5S]M/-30+50/95 Cell B: IFpP/74/176/209[(52S1P)5S]M/-30+50/95 Cell C: IFpP/74/176/209[(52S1P)5S]M/-30+50/95		
Pack Configuration	1P52S / 52.25 kWh		
System Configuration	1P260S		
DC Voltage Range	728 V - 936 VDC		
Nominal Battery Energy	261 kW·h		
Temperature Detection	Battery cell + Module + Positive and Negative terminals		
AC Side (On-Grid)			
Rated Output Power	99.9 kW @55°C	124.9 kW @55°C	125 kW @55°C
Maximum Output Apparent Power	99.9 kVA @55°C	124.9 kVA @55°C	137.5 kVA @50°C
AC Voltage Range	340 V - 440 VAC		
Rated Grid Frequency	50/60 Hz, ± 5 Hz		
THDi	< 3% (@Rated power)		
Icc	10 kA		
AC Connection Method	3/N, 3/N/PE		
AC Side (Off-Grid)			
Rated Output Power	99.9 kW @55°C	124.9 kW @55°C	125 kW @55°C
AC Voltage Range	340 V - 440 VAC		
Rated Grid Frequency	50/60 Hz		
THDu	< 3% (Linear load)		
DC Injection	< 1% Un (Balanced linear load)		
Efficiency			
Maximum Round-trip Efficiency	90.3%		
Overload			
Overload Capacity	Operate for a long time at 1.1 times (137.5 kW @50°C), Operate for no less than 1 minutes at 1.2 times the rated load.		
General Data			
Dimensions (W×H×D)	1030 mm × 2450 mm × 1400 mm		
Weight	< 2800 kg		
Operating Temperature	-30°C to +55°C		
Operating Humidity	0 - 100%RH (non-condensing)		
Altitude	≤ 2000 m		
IP Rating	IP55		
Cooling Method	Fully liquid cooling (PCS + Battery)		
Noise	70dB (Optional 60dB)		
Rated Charge/Discharge Rate	≤ 0.5P		
Fire Suppression System	Aerosol + Water fire protection + Interlocked exhaust ventilation + Pressure relief (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 Cloud (Support third-party cloud platforms)		
Standard and Regulation			
Grid Code Compliance	GBT 34120-2023, EN 50549-1/-2/-10, PGMcv 1.4, Synergrid Listed, G99/1-10/03.24, ENA Listed, VDE-AR-N 4105/11.18, DIN VDE V 0124-100/06.20, VDE-AR-N 4110/4120, ZEREZ Listed, CEI 0-21,CEI 0-16, RESP-73/2020, 2016/631 EU-(NC RfG), PSE 2018, PTPiREE Listed, RD244, UNE217001:2020		
Production Compliance	EN/IEC 62477-1:2012, IEC 62619:2022, EN IEC 61000-6-2/4:2019, IEC 63056:2020, GB/T 34131-2023, GB/T 36276-2023, UN38.3 Rev.8, IEC60730-1 AnnexH, IEC 61683, EN&IEC 62920		

* Subject to change without notice.

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