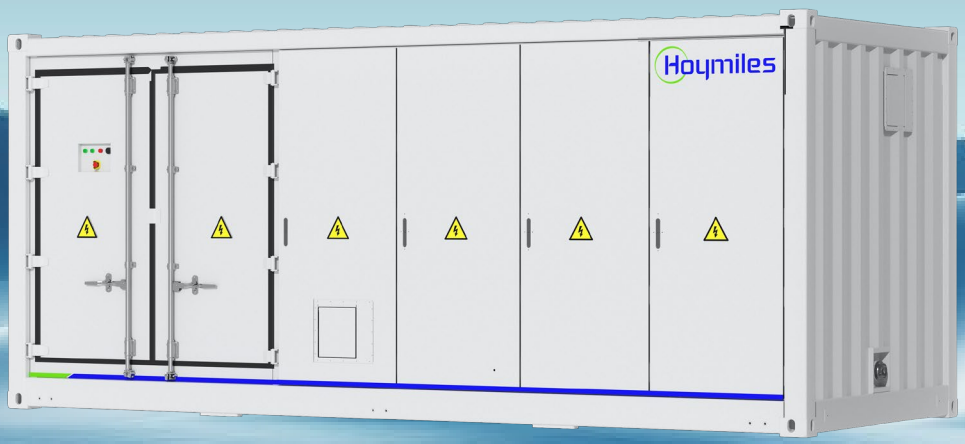
HoyPrime V3 All-in-One Container

The HoyPrime V3 is an all-in-one, liquid-cooled container designed for smart grid solutions. It features six levels of safety protection and supports Time-of-Use, PV self-consumption, peak shaving, and backup power. With built-in AI, it enables real-time adjustments to improve energy efficiency and maximize operating revenue.

HESS-(2088-2610)-2h



** Images displayed are for illustration purposes only. Product appearances and design are subject to change without notice and may vary from those shown.*

Features

Smart Grid–Ready Solution

- ***On/Off-Grid Transferring:*** *Optional built-in STS, switching time less than 20 ms.*
- ***Black Start and Grid-Forming:*** *Capable of supporting critical load with grid support, seamless transferring between grid-forming and on-grid operation.*
- ***Powerful EMS:*** *Capable of connecting multi-source, with optional PV inverter and generator integration ports and management, optimizing energy usage, boosting solar generation and reducing energy bill.*

High Integration

- ***6-in-1 Integration:*** *BESS, BMS, PCS, STS, thermal management, and fire protection integrated in one container, greatly reducing your footprint, installation complexity, and commissioning time.*
- ***Flexible and Scalable:*** *2.088–2.61 MWh selectable capacity, supports multi-cabinet parallel connection, easily adapting to your commercial, industrial, and grid-scale energy needs.*
- ***Multiple Revenue:*** *Supports various EMS modes, VPP aggregation, and peak-valley arbitrage, helping you maximize asset value and achieve higher economic returns.*

Technical Specifications

Model	HESS-2088-2h	HESS-2610-2h
DC Side		
Battery Type	LFP (Lithium Iron Phosphate), 3.2 V / 314 Ah	
Battery Pack Configuration	1P52S	
Battery System Configuration	8P260S	10P260S
Rated Energy (MWh)	2.088	2.610
Rated DC Voltage (V)	832	
Operating Voltage Range (V ac)	650 to 949	
AC Side		
Rated Current (A)	1444	1805
Maximum AC Power (MW)	1 (@50°C) 125 kW × 8	1.25 (@50°C) 125 kW × 10
Maximum Output Power (MW)	1.1 (@50°C)	1.375 (@50°C)
Rated Grid Voltage (V ac)	400	
Rated Output Voltage Range (V ac)	340 to 440	
Rated Grid Frequency (Hz)	50 / 60	
Grid Frequency Operating Range (Hz)	45 to 55 / 55 to 65	
Total Harmonic Distortion	<3% (@ rated power)	
Grid Type	3L + N + PE	
System Parameters		
PV Circuit Breaker Current (A)	2500 (Optional)	/
Generator Circuit Breaker Current (A)	2000 (Optional)	/
Dimensions (L × W × H [mm])	6058 × 2431 × 2591	
Weight (T)	27.5	28
Operating Temperature Range (°C)	-30 to 55 (> 50°C, derating)	
Relative Humidity	0 to 95% (non-condensing)	
Standard Altitude (m)	2000 (≥ 2000 m derating)	
IP Rating	IP55	
Anti-corrosion Degree	C4 / C5 (Optional)	
Noise (dB)	< 75	
Rated Charging/Discharging Rate	0.5 P	
Fire Suppression System	Combustible gas detector, smoke detector, temperature detector, compartment-level aerosol fire suppression system, water fire suppression, integrated ventilation systems	
Cooling method	Liquid Cooling	
Maximum Round-Trip Efficiency	91%	
Communication Interface	CAN / RS485 / Ethernet	
Communication Protocol	Modbus TCP / MQTT	
Compliance	IEC 60730, IEC 62619, IEC 62477, IEC 61000, EN 50549-1/2/10, VDE-AR-N 4105, IEC 62116, C10/C11, 2016/631 EU-(NC RfG), PSE 2018-12-18	

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